# Cassette Car Radio 22DC891/75

## 22DC891/75E

Service
Service
**Service**

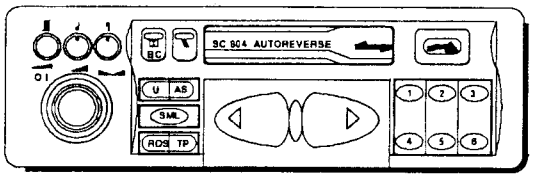
**For repair information of the cassette deck see service manual of Auto Cassette Deck SCA 2.3**

n. a.

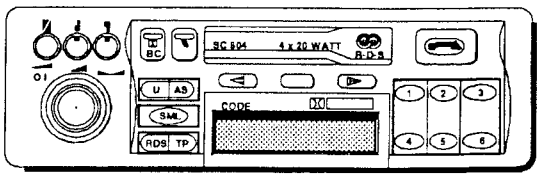
# ServiceManual

12 V

22DC891/75E




22DC891/75

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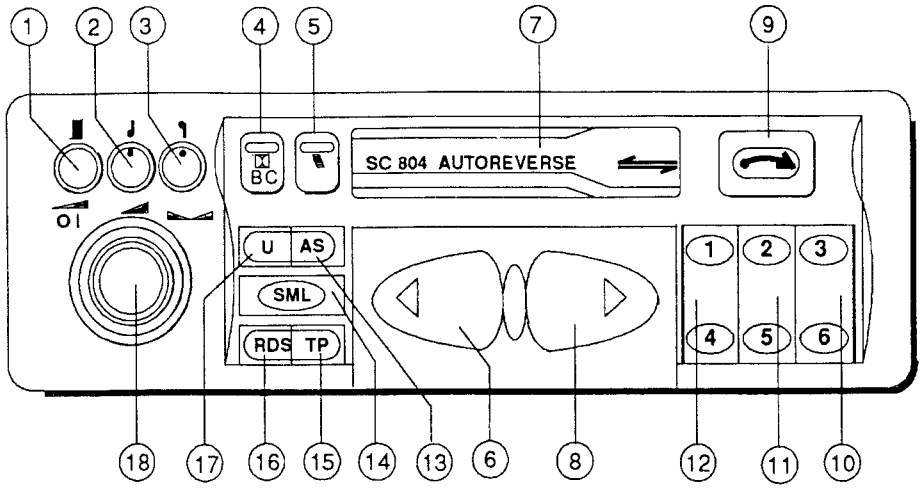
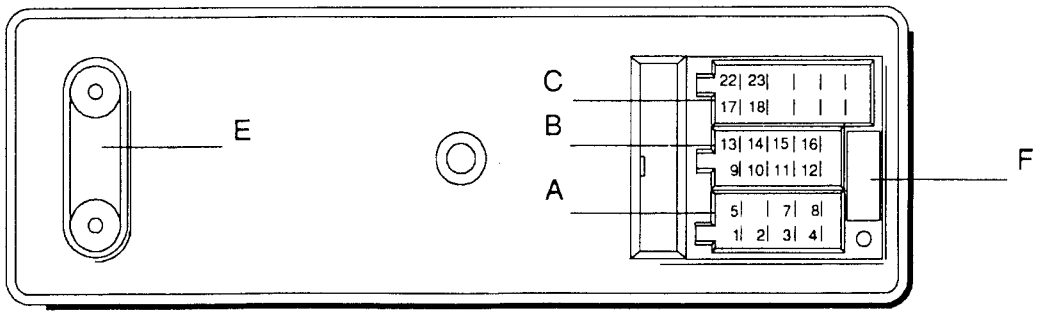
## 22DC891/75E

## CONTROLS




1. Fader / SDVC
2. Bass
3. Treble
4. Dolby B/C
5. Reverse
6. Search down / FRW / MSS
7. Cassette aperture with flap
8. Search up / FFW / MSS
9. Mode radio / cassette / eject
10. Rocker button presets 3-6
11. Rocker button presets 2-5
12. Rocker button presets 1-4
13. Autostore
14. SW-MW-LW
15. Traffic program
16. Radio Data System (RDS)
17. FM Band
18. On/Off-Volume-Balance

## REAR VIEW




A : POWER SUPPLY
- A1 Anti theft ground
- A2 Switched plus
- A3 Controlled illumination
- A4 Ground
- A5 SDVC
- A7 Switched aerial
- A8 Permanent plus

B : LOUDSPEAKERS
- B 9 Rear right ground
- B10 Front right ground
- B11 Front left ground
- B12 Rear left ground
- B13 Rear right
- B14 Front right
- B15 Front left
- B16 Rear left

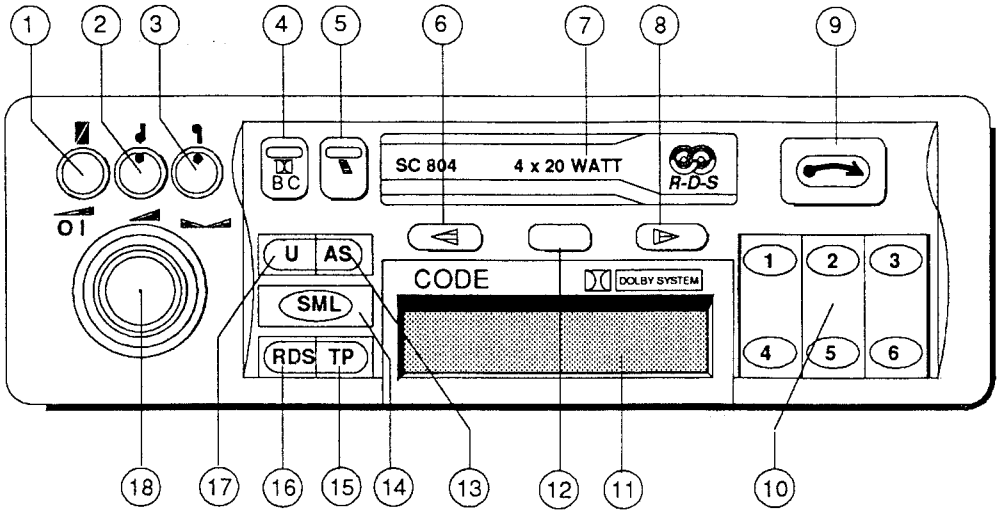
C : EXTERNAL DISPLAY
- C17 Serial clock line
- C18 Master request line
- C22 Serial data line
- C23 MBUS ground

E : AERIAL PLUG

F : FUSE 10A

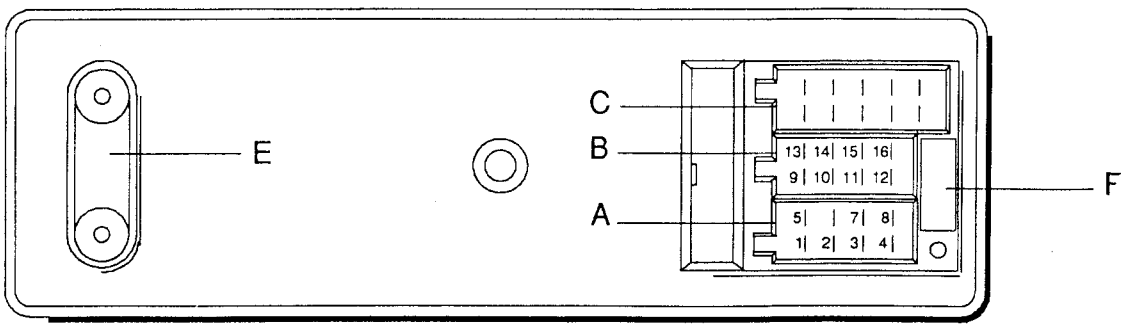
## 22DC891/75

## CONTROLS




1. Fader / SDVC
2. Bass
3. Treble
4. Dolby B/C
5. Reverse
6. Search down / FRW / MSS
7. Cassette aperture with flap
8. Search up / FFW / MSS
9. Mode radio / cassette / eject
10. Rocker buttons preset 1 - 6
11. Removable display
12. Removable display eject
13. Autostore
14. SW-MW-LW
15. Traffic Program
16. Radio Data System (RDS)
17. FM band
18. On/Off-Volume-Balance

## REAR VIEW




A : POWER SUPPLY
- A1 Anti Theft ground
- A2 Switched plus
- A3 Controlled illumination
- A4 Ground
- A5 SDVC
- A7 Switched aerial
- A8 Permanent plus

B : LOUDSPEAKERS
- B 9 Rear right ground
- B10 Front right ground
- B11 Front left ground
- B12 Rear left ground
- B13 Rear right
- B14 Front right
- B15 Front left
- B16 Rear left

C: REMOTE CONTROL

E : AERIAL PLUG

F : FUSE 10A

## TECHNICAL DATA

General

| | |
|---|---|
| Power supply | : +14.4 V |
| Dimensions (wxhxd) | : 180x51x160 mm. |

Radio

| | |
|---|---|
| LW | : 144-288 kHz |
| MW | : 531-1611 kHz |
| FM | : 87.5108 kHz |
| SW | : 5.956.2 MHz |
| IFAM | : 10.7 MHz |
| IFFM | : 10.7 MHz |
| Sensitivity 26dB S/R | : 52 µV (LW) |
| | : 38 µV (MW) |
| | : 5 µV (FM) |
| | : 28 µV (SW) |
| Limitation α-3dB | : 15 µV |

Cassette player

| | |
|---|---|
| Number of tracks | : 2x2 |
| Tape speed | : 4.76 cm/sec 2% |
| Wow and flutter | : ≤ 0.35 % |
| Crosstalk | : ≥ 30 dB |
| Dolby | : B+C |

Amplifier

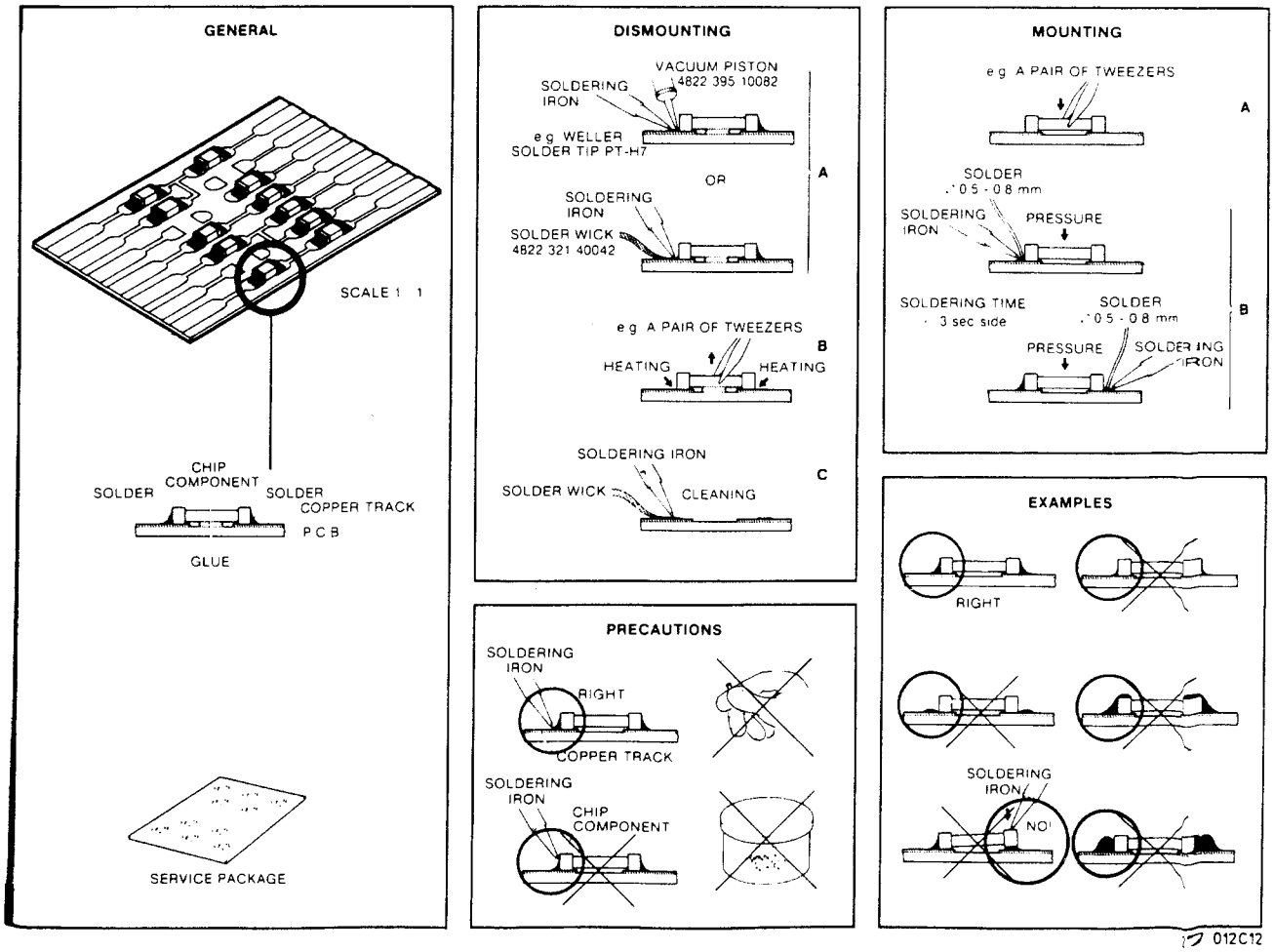
| | |
|---|---|
| Output power (D=10%) | : 4x16 W ± 1 dB (4x4W) |
| Bass | : +12/12 ± 2 dB (60 Hz) |
| Treble | : +12/12 ± 2 dB (10 kHz) |

ESD

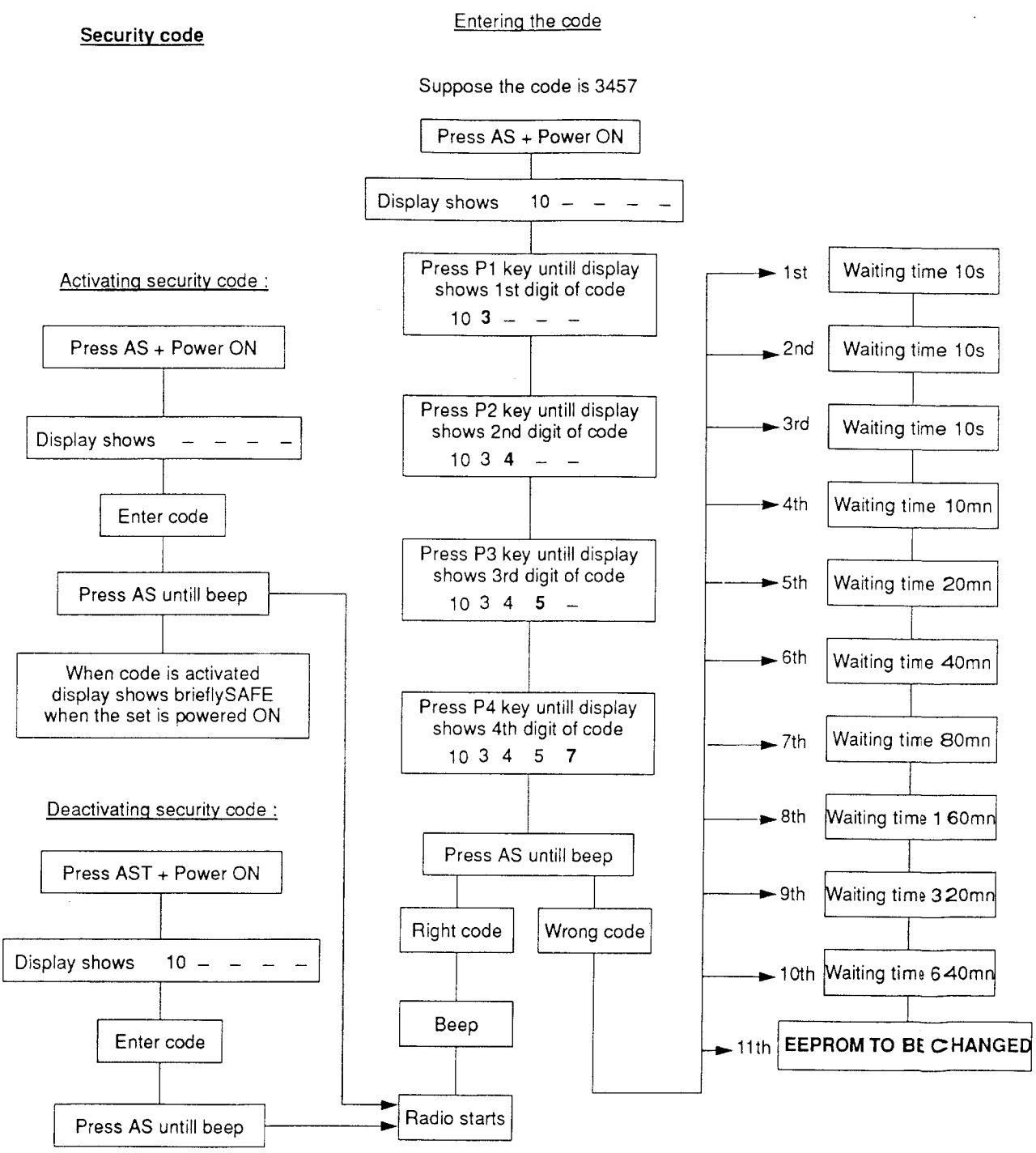
**WARNING**

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.
When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

## HANDLING CHIP COMPONENTS



## Security code




When the good code is entered, the number of unsuccesfull trials is set to zero

22DC891/75.../75E

**New features description.**

**Dimmable car lighting:**

When switching on car lighting, the lamps in the set are supplied through the illumination control pin of the connector. Then, acting on the dashboard dimmer adjusts dashboard and set lighting intensity together.

**Removable display unit:**

The set "SC 804" have a removable display unit, which contains a code of resistors corresponding to a voltage read by the set. The set and his display unit are matched in the car factory according to the following procedure:

- Ignition on set off.
- Keep depressed the "DOLBY" knob and switch on the set. After approximately 3 seconds, a beep is sent meaning that the set and his display are matched. In case of wrong coded display inserted and set switched on, the display shows "DISPLAY". After the third wrong code attempt, display shows "SAFE".

-The following procedure can be applied now to match the new display unit with the set:

1: Insert the display unit, switch the set on, ignition on; display shows "DISPLAY".
2: Depress "AS" (auto store) key during 3 seconds; display shows " ".
3: Enter security code of the set.(same procedure as security code).
4: Depress "AS" key during 3 seconds to valid the code
5: A beep is sent, meaning that the new display and the set are matched.(new code value of the display replaces the old one)
In case of "SAFE" displayed (i.e: after 3 wrong attempts), depress "AS" key during 3 seconds, and back to the point 3.
New matching between set and display will not modify the activation (or deactivation) of the code.

**Metal/chrome detection:**

In the "SC 804", the tape deck automatically detects the type of the cassette inserted. In case of ME/Cr cassette type, display shows "Cr" symbol.

**ON/OFF logic switching:**

On/Off logic function can be activated or deactivated applying the following procedure:
Set off, ignition on: Depress presets 1 and 3 and switch on the set together during 3 seconds.
A beep is sent, meaning that the on/off logic function is activated (or deactivated).

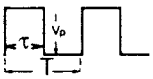
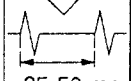
**Hold mode:**

The "hold mode" is necessary in our factory to have an access to the microprocessor bus. This mode is activated by the following procedure:
Set off, ignition on: Depress presets 4 + 6 and switch on the set. There is no display and no function. Switch off and on the set to return to normal use.

**Radio Data System (RDS):**

RDS signals on FM make it easier for you to find the required station. When the radio receives a RDS station, the display shows the station name instead of a frequency. During your journey, RDS automatically selects the best frequency for the selected program . You do not need to tune again when moving into another reception area.
To receive RDS stations only, select FM with "U" key, depress RDS knob, the display shows "RDS".(If necessary, the radio retunes to a RDS station).The radio automatically selects the best frequency corresponding to the selected program .
Note: Search tuning now selects RDS stations only.
To switch off "RDS", depress "RDS" key. RDS disappears from the display. The display continues to show the station name(for RDS stations), but the radio will no longer automatically select the best frequency corresponding to the selected program.
Regional programs: Some RDS programs broadcast different regional programs.
To remain tuned to the regional program that you are listening, depress "RDS" key for more than 2 seconds. the display shows "reg on". To cancel it, depress "RDS" key for more than 2 seconds, so the display shows "reg off".
Remark: "reg on" and "reg off" can be memorized on the preset keys.
When switching on the set or recalling a preset, is "reg on" briefly displayed, and not "reg off".

For checking and adjusting see general procedures

| Check | SK | | | | Setting of controls | | |
|---|---|---|---|---|---|---|---|
| Demodulated FM levels | FM | 93 MHz 1 mV<br>Δf=22.5 KHz<br>f mod = 1 KHz | B | | | ◇5 160 mV ± 1 dB | |
| | | 93 MHz 1 mV<br>Δf = 6.75 KHz<br>f mod = 19 KHz | | | | ◇5 45 mV ± 1 dB | |
| | | 93 MHz 1 mV<br>Δf= 3.75 KHz<br>f mod = 57 KHz | | | | ◇5 19 mV ± 1 dB | |
| Demodulated AM level | MW | 1053 KHz 1 mV<br>1 KHz, 30% AM | A | | | 250 mV ≤ ◇8 ≤ 500 mV | |
| VC FM | FM | | | 87.5 MHz | | ◇6 > 1.0 V | |
| | | | | 108 MHz | | ◇6 < 6.5 V | |
| VC AM | LW | | | 144 KHz | | ◇7 > 0.8 V | |
| | SW | | | 6,2 MHz | | ◇7 < 6.5 V | |
| I.A.C. | FM |  <br>τ = 10 msec<br>T = 300 msec<br>Vp = 60 mV | C | | | | ◇9<br>  <br>25-50 ms |
| R.D.S Oscillator Frequency | FM | | | | | ◇1 4,332 MHz ± 100Hz | |
| Pause Detector | FM | 94 MHz 1 mV<br>Δ f=1,5 KHz<br>f mod = 1 KHz | B | 94 MHz | | ◇2 < 0,8 V | |
| | | 94 MHz 1 mV<br>Δ f=3,5 KHz<br>f mod = 1 KHz | | | | ◇2 > 4,2 V | |

| Adjustment | SK | | | | | |
|---|---|---|---|---|---|---|
| Quad detector | FM | 93 MHz100 µV | ◇B | P2<br>93 MHz | 5150 | DC between 11and 15 6150 ≤200 mV |
| FM limiting sensivity | FM | 98 MHz 12µV<br>Δf = 22.5 KHz<br>f mod = 1 KHz | ◇B | P2<br>93 MHz | 3155 | ◇3 1.5 V DC ± 0.1 V |
| Search level AM | MW | 990 KHz 370µV<br>unmodulated | ◇A | P1<br>990 KHz | 3156 | ◇4 0.74 V DC±50 mV |
| VC limit AM | LW | 144 KHz 500µV<br>unmodulated | ◇A | 144 KHz | 5055 | ◇4 1 V DC ± 0,1 V |

## DC Voltages

### 1250 Dolby THIFI

1 = N.C.
2 = N.C.
3 = 4.4 DBB - 8.5 V DBC
4 = 4.2 V
5 = GND
6 = 4.2 V
7 = 8.5 V
8 = N.C.
9 = N.C.
10 = 4.3 V
12 = N.C.
13 = 4.3 V
14 = 8.5 V
15 = 4.3 V
16 = N.C.
18 = 4.3 V

### 1450 RDS THIFI

1 = GND
2 = 4.2 V
3 = 4.2 V
4 = N.C.
5 = 8.3 V
6 = N.C.
7 = 4.9 V
8 = GND
9 = 2.5 V
10 = N.C.
11 = 2.5 V
12 = N.C.
13 = N.C.
14 = N.C.
15 = 2.3 V
16 = 2.4 V
17 = 2.5 V
18 = 2.8 V
19 = 2.6 V
20 = 0.0 V

### Radio Module

1 = 0.7 V
2 = 8.2 V
3 = N.C.
4 = 1.2 V
5 = GND
6 = 0.2 V FM - 8.4 V AM
7 = 1.6 V FM - 0.0 V AM
8 = 8.5 V
9 = 8.3 V
10 = N.C.
11 = 40 KHz ± 0.3 Hz
12 = GND
13 = 8.5 V
14 = 5.0 V SCL
15 = 5.0 V SDA
16 = 3.9 V
17 = 4.4 V AM
18 = GND
19 = 5.0 V Mo - 0.6 V St
20 = 3.4 V
21 = 3.4 V

### 7050 TEA6200

1 = 6.8 V AM
2 = 4.0 V AM
3 = 8.4 V
4 = 8.4 V
5 = 8.4 V
6 = 8.3 V
7 = 1.1 V
8 = 4.1 V AM
9 = 4.1 V AM
10 = 4.1 V
11 = 6.8 V AM
12 = 3.0 V
13 = 5.0 V AM
14 = 8.4 V AM
15 = 4.8 V AM
16 = 4.8 V AM
17 = GND
18 = 1.1 V AM
19 = 1.3 V AM
20 = 3.2 V AM

### 7170 TSA6057

1 = 4 MHz
2 = 4 MHz
3 = 4.9 V
4 = GND
5 = 2.0 V
6 = 2.0 V
7 = 2.0 V
8 = 0.3 V FM
8.3 V AM
9 = 40 KHz ± 0.3 Hz
10 = 4.9 V SDA
11 = 4.9 V SCL
12 = GND
13 = 1.4 V - 5.8 V FM
14 = 2 .1 V
15 = 2.5 V - 4 V AM
16 = 8.5 V

### 7400 HEF4052

1 = 4.3 V
2 = 4.0 V
3 = 4.3 V
4 = 4.3 V
5 = N.C.
6 = 0.0 V
7 = GND
8 = GND
9 = 0.1 V FM
10 = 5.0 V CAS
11 = 4.3 V
12 = 4.2 V
13 = 4.3 V
14 = N.C.
15 = 4.0 V
16 = 8.5 V

### 7450 LA2000

1 = 2.0 V
2 = 8.3 V
3 = 2.0 V
4 = N.C.
5 = GND
6 = 5.0 V
7 = N.C.
8 = N.C.
9 = 8.5 V

### 7461 X2404PI

1 = GND
2 = GND
3 = GND
4 = GND
5 = 4.9 V SDA
6 = 4.9 V SCL
7 = GND
8 = 5.0 V

### 7501 TMP47C800N

1 = 1.6 V
2 = 5.0 V - 0.0 V PAUSE RDS
3 = 0.0 V
4 = 0.0 V
5 = 0.0 V
6 = 0.0 V
7 = 4.5 V ON
8 = ⊓⊔ ON / OFF
9 = 1.2 V
10 = 3.8 V
11 = 2.4 V
12 = 0.6 V STEREO - 5.0 V MONO
13 = 2.0 V
14 = 2.3 V
15 = 1.8 V
16 = ⊓⊔ ON / OFF
17 = KEYB A
18 = KEYB B
19 = KEYB C
20 = KEYB D
21 = GND
22 = 0.0 V - 4.4 V DBB - 8.6 V DBC
23 = 0.0 V - 8.5 V DBC
24 = 0.0 V ST - 4.5 V MONO
25 = BEEP
26 = KEYB 1
27 = KEYB 2
28 = KEYB 3
29 = KEYB 4
30 = GND
31 = 4.332 MHz
32 = 4.332 MHz
33 = 5.0 V
34 = ⊔⊓ ON / OFF
35 = 5.0 V
36 = 0.0 V FM - 5.0 V CAS / AM
37 = 0.0 V
38 = 0.0 V AM / FM - 5.0 V CAS
39 = 0.1 V
40 = 5.0 V SDA1
41 = 5.0 V SCL1
42 = 5.0 V

### 7504 TLC549IP

1 = 5.0 V
2 = 1.5 V ~ 2.7 V
3 = GND
4 = GND
5 = 2.4 V
6 = 3.8 V
7 = 1.2 V
8 = 5.0 V

### 7505 HEF4051B

1 = 0.0 V ~ 5.0 V FAD
2 = 0.0 V ~ 5.0 V SDVC
3 = 1.5 V ~ 2.7 V
4 = N.C.
5 = 1.1 V
6 = GND
7 = GND
8 = GND
9 = 1.8 V
10 = 2.3 V
11 = 2.0 V
12 = 0.0 V ~ 5.0 V BAL
13 = 0.0 V ~ 5.0 V VOL
14 = 0.0 V ~ 5.0 V BASS
15 = 0.0 V ~ 5.0 V TREB
16 = 5.0 V

### 7401 BC 847 B

e = 5.0 V
b = 5.6 V
c = 7.3 V

### 7600 TEA 6310

1 = 4.9 V SDA
2 = GND
3 = 4.2 V
4 = 4.2 V
5 = 4.2 V
6 = 4.2 V
7 = 4.2 V
8 = N.C.
9 = 4.2 V
10 = N.C.
11 = 8.2 V
12 = N.C.
13 = N.C.
14 = 4.2 V
15 = 4.2 V
16 = N.C.
17 = N.C.
18 = GND
19 = N.C.
20 = 4.2 V
21 = N.C.
22 = 4.2 V
23 = 4.2 V
24 = 4.2 V
25 = 4.2 V
26 = 4.2 V
27 = 8.3 V
28 = 4.9 V SCL

### 7752 L4904

1 = 14.4 V
2 = 14.4 V
3 = 5.6 V
4 = GND
5 = N .C.
6 = 4.3 V
7 = 5.0 V
8 = 5.0 V

### 7753 L 4918

1 = 14.4 V
2 = 2.6 V
3 = GND
4 = GND
5 = 8.5 V

### 7754 BC847B

e = GND
b = 0.0 V
c = 5.0 V

### 7755 BC847B

e = GND
b = 0.6 V
c = 0.0 V

### 7770 BC847B

e = GND
b = 0.7 V
c = 0.0 V

### 7771 BC847B

e = GND
b = 0.0 V
c = 6.8 V

### 7805 BC858B

e = 5.0 V
b = 4.4 V
c = 5.0 V

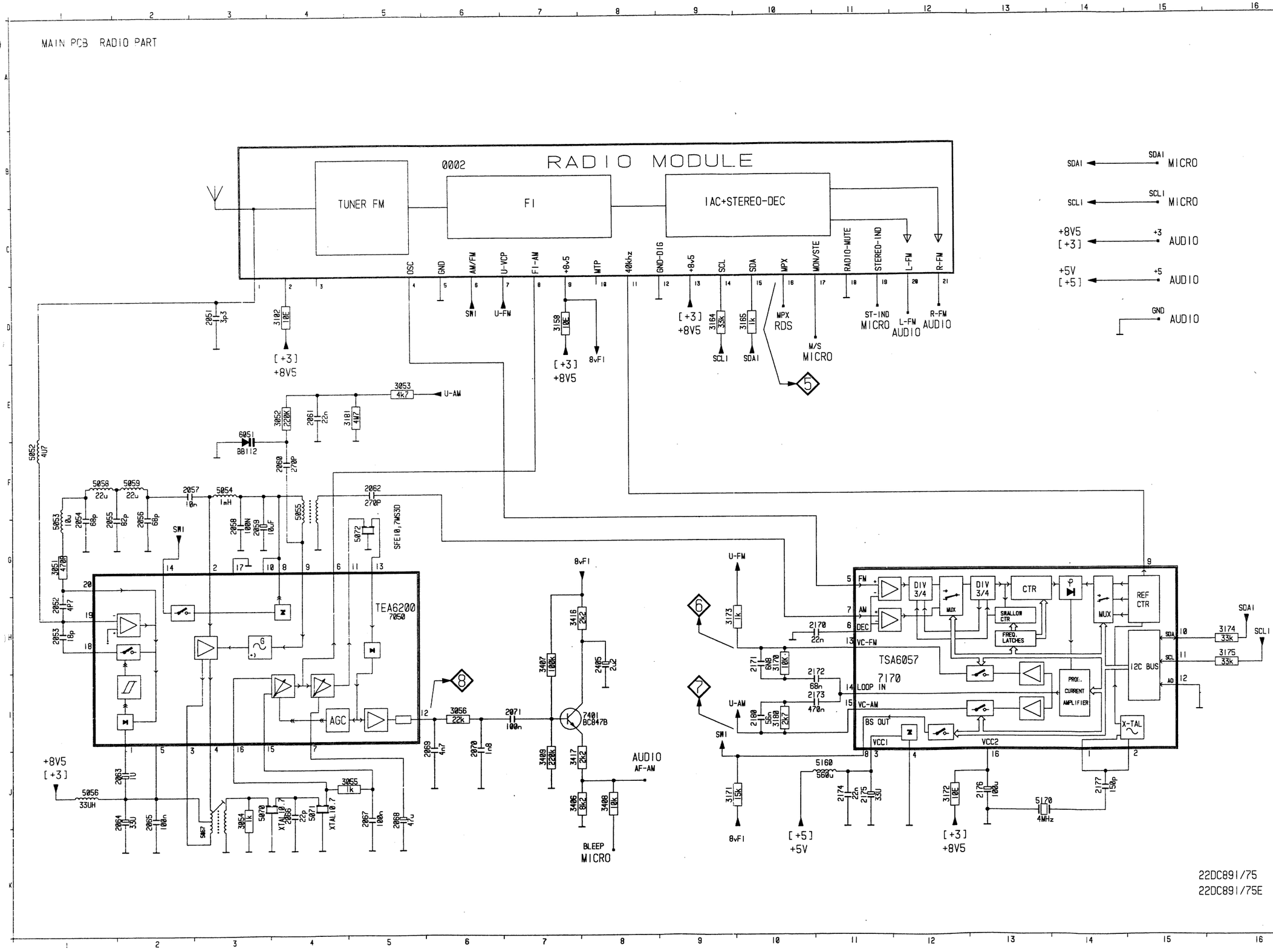
### 7811 BD438

e = 14.4 V
b = 13.6 V
c = 14.4 V

### 7806 BC 847 B

e = GND
b = 0.0 V OFF - 0.9 V ON
c = 0.0 V ON - 14.4 V OFF

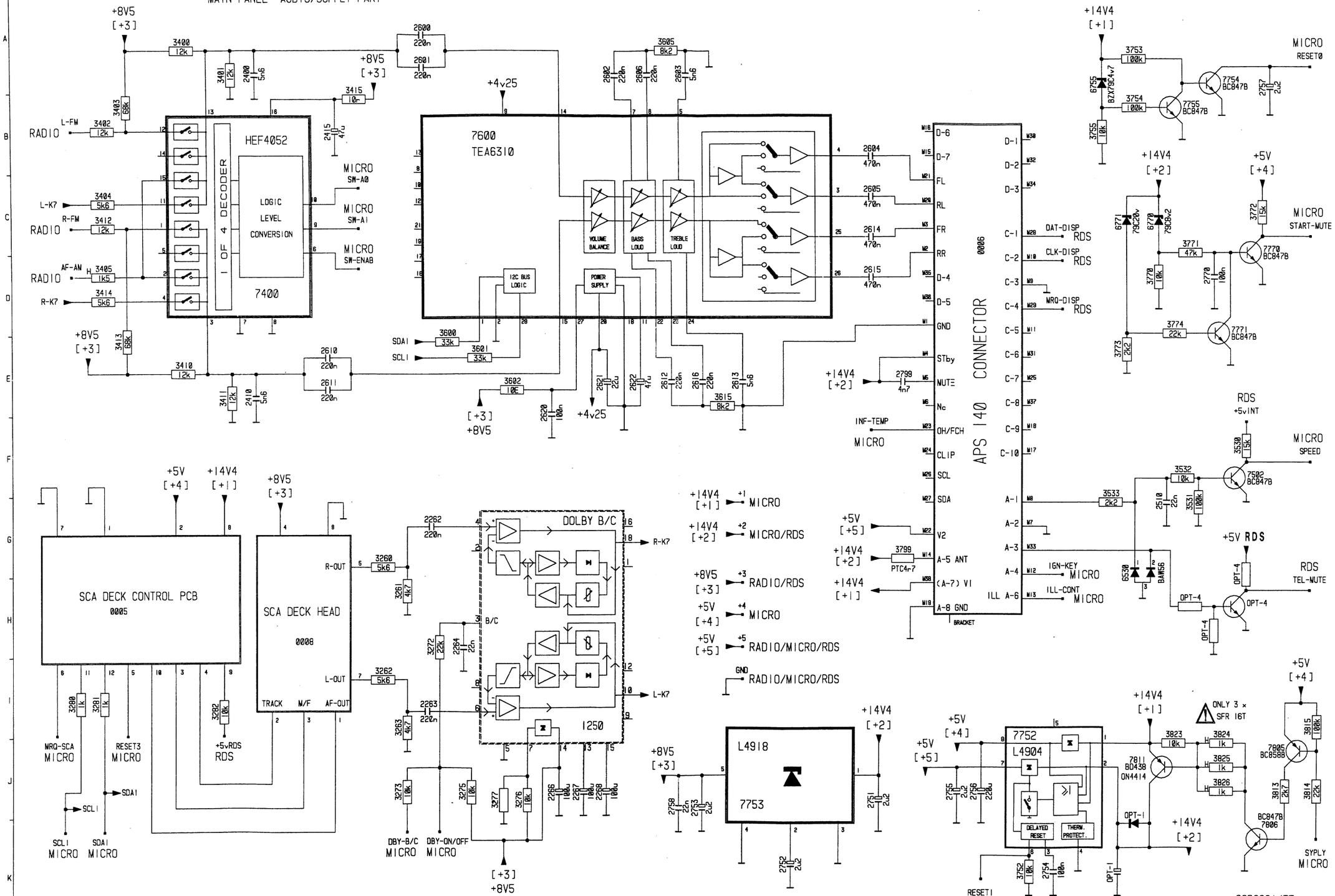
MAIN PCB RADIO PART



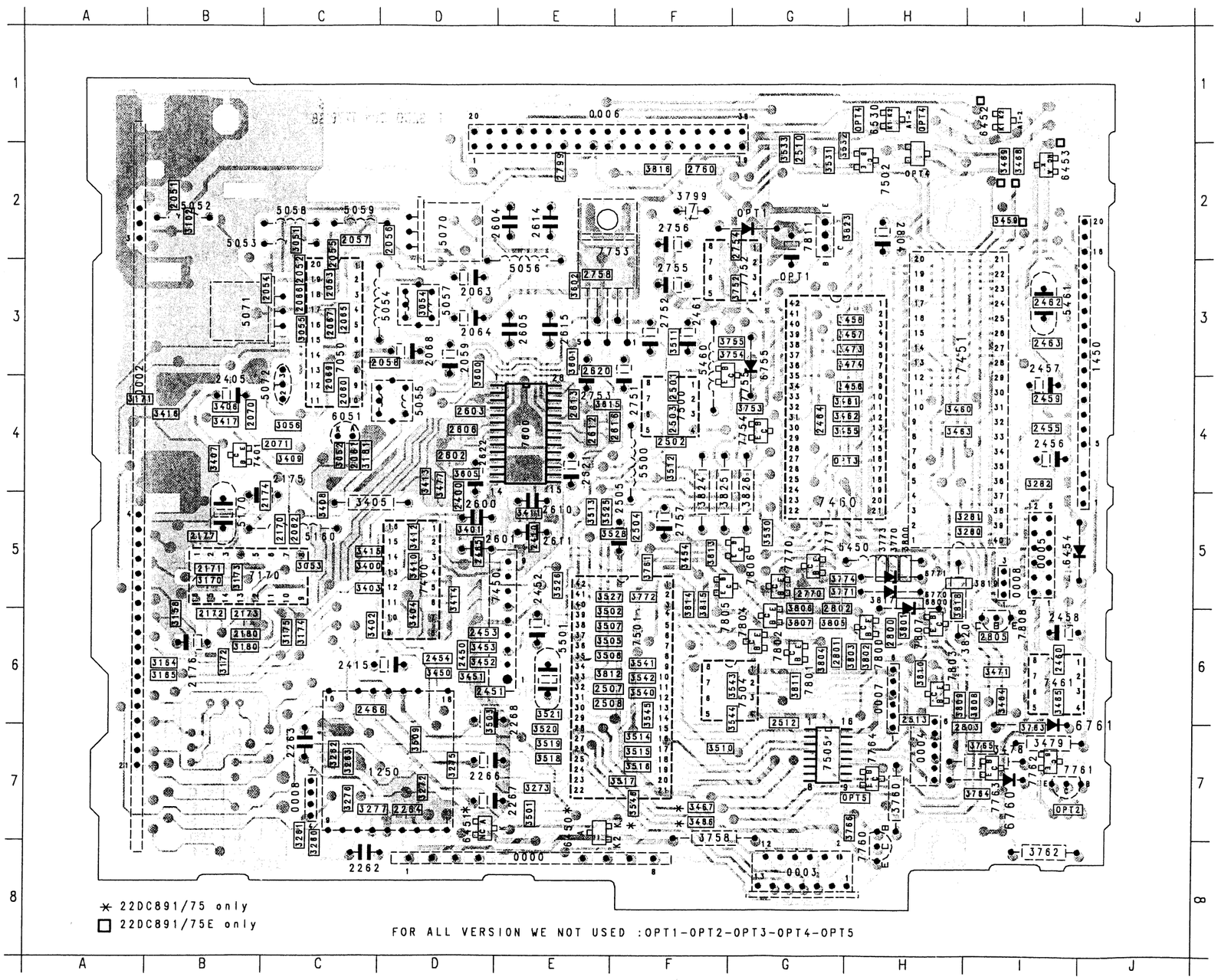

7

7a

MAIN PANEL AUDIO/SUPPLY PART

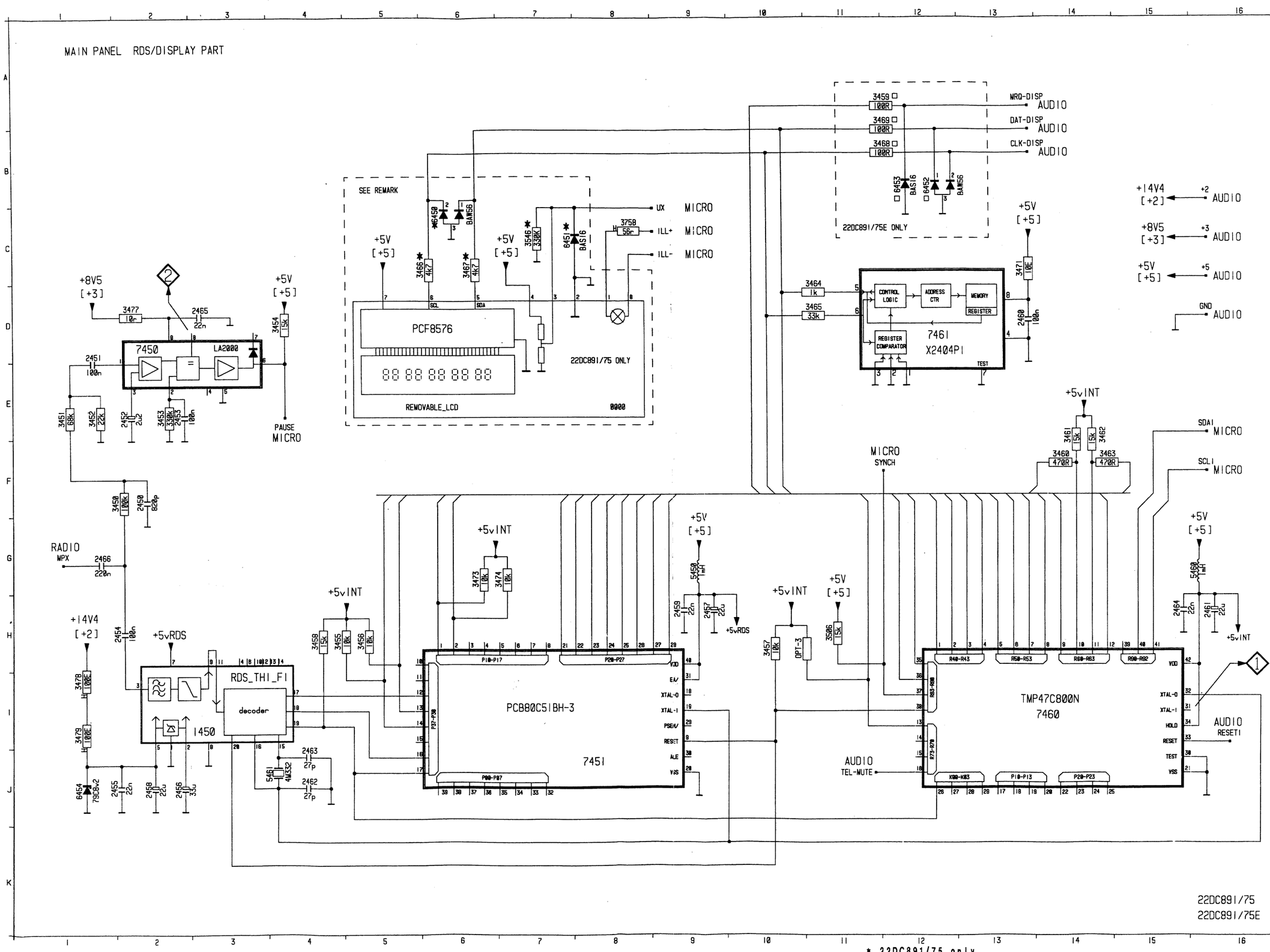



REMARKS: FOR ALL VERSION WE NOT USED : OPT-4 OPT-1




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| OPT1 | 3G | 2612 | 4E | 3474 | 3H | 5071 | 3B |
| OPT1 | 2G | 2613 | 4E | 3477 | 4D | 5072 | 4C |
| OPT2 | 7I | 2614 | 2E | 3478 | 7I | 5160 | 5C |
| OPT3 | 4G | 2615 | 3E | 3479 | 7I | 5170 | 5B |
| OPT4 | 1H | 2616 | 4F | 3501 | 7E | 5450 | 5H |
| OPT4 | 1H | 2620 | 3E | 3502 | 6F | 5460 | 3F |
| OPT4 | 2H | 2621 | 4E | 3503 | 6D | 5461 | 3I |
| OPT5 | 7H | 2622 | 4D | 3505 | 6F | 5500 | 4F |
| 0000 | 8E | 2751 | 4F | 3506 | 6F | 5501 | 6E |
| 0002 | 4B | 2752 | 3F | 3507 | 6F | 6051 | 4C |
| 0003 | 8G | 2753 | 4E | 3509 | 7D | 6450 | 7E |
| 0004 | 7H | 2754 | 2G | 3510 | 7F | 6451 | 7D |
| 0005 | 5I | 2755 | 3F | 3511 | 3F | 6452 | 1I |
| 0006 | 1E | 2756 | 2F | 3512 | 4F | 6453 | 2I |
| 0007 | 6H | 2757 | 5F | 3513 | 5E | 6454 | 5I |
| 0008 | 7C | 2758 | 3E | 3514 | 7F | 6530 | 1H |
| 0008 | 5I | 2760 | 2F | 3515 | 7F | 6755 | 3G |
| 1250 | 7D | 2770 | 5G | 3516 | 7F | 6760 | 7I |
| 1450 | 3J | 2799 | 2E | 3517 | 7F | 6761 | 7J |
| 2051 | 2B | 2800 | 6H | 3518 | 7E | 6770 | 5H |
| 2052 | 3C | 2801 | 6G | 3519 | 7E | 6771 | 5H |
| 2053 | 3C | 2802 | 6G | 3520 | 7E | 6800 | 5H |
| 2054 | 3C | 2803 | 7I | 3521 | 6E | 7050 | 3C |
| 2055 | 2C | 2804 | 2H | 3525 | 5E | 7170 | 5C |
| 2056 | 2D | 2805 | 6I | 3526 | 5E | 7400 | 5D |
| 2057 | 2C | 3051 | 2C | 3527 | 5F | 7401 | 4B |
| 2058 | 3D | 3052 | 4C | 3528 | 5F | 7450 | 5E |
| 2059 | 3D | 3053 | 5C | 3530 | 5G | 7451 | 3I |
| 2060 | 4C | 3054 | 3D | 3531 | 2G | 7460 | 5G |
| 2061 | 4C | 3055 | 3C | 3532 | 2G | 7461 | 6I |
| 2062 | 5C | 3056 | 4C | 3533 | 2G | 7500 | 4F |
| 2063 | 3D | 3102 | 2B | 3540 | 6F | 7501 | 6F |
| 2064 | 3D | 3158 | 6B | 3541 | 6F | 7502 | 2H |
| 2065 | 3C | 3164 | 6B | 3542 | 6F | 7504 | 6G |
| 2066 | 3C | 3165 | 6B | 3543 | 6G | 7505 | 7G |
| 2067 | 3C | 3170 | 5B | 3544 | 6G | 7600 | 4E |
| 2068 | 3D | 3171 | 4A | 3545 | 6F | 7752 | 3G |
| 2069 | 4C | 3172 | 6B | 3546 | 7F | 7753 | 2F |
| 2070 | 4B | 3173 | 5B | 3600 | 4D | 7754 | 4G |
| 2071 | 4C | 3174 | 6C | 3601 | 3E | 7755 | 4G |
| 2170 | 5C | 3175 | 6C | 3602 | 3E | 7760 | 8H |
| 2171 | 5B | 3180 | 6B | 3605 | 4D | 7761 | 7I |
| 2172 | 6B | 3181 | 4C | 3615 | 4E | 7762 | 7I |
| 2173 | 6B | 3260 | 8C | 3752 | 3G | 7763 | 7I |
| 2174 | 5C | 3261 | 7C | 3753 | 4G | 7764 | 7H |
| 2175 | 4C | 3262 | 7C | 3754 | 3G | 7770 | 5G |
| 2176 | 6B | 3263 | 7C | 3755 | 3G | 7771 | 5G |
| 2177 | 5B | 3272 | 7D | 3758 | 7F | 7800 | 6H |
| 2180 | 6B | 3273 | 7E | 3760 | 7H | 7801 | 6G |
| 2262 | 8C | 3275 | 7D | 3761 | 5F | 7802 | 6G |
| 2263 | 7C | 3276 | 7C | 3762 | 8I | 7803 | 6H |
| 2264 | 7D | 3277 | 7C | 3763 | 7I | 7804 | 6G |
| 2266 | 7D | 3280 | 5I | 3764 | 7I | 7805 | 6F |
| 2267 | 7E | 3281 | 5I | 3765 | 7I | 7806 | 5G |
| 2268 | 6E | 3282 | 4I | 3766 | 7H | 7807 | 6H |
| 2400 | 5D | 3400 | 5C | 3770 | 5H | 7808 | 6I |
| 2405 | 4B | 3401 | 5D | 3771 | 5G | 7811 | 2G |
| 2410 | 5E | 3402 | 6C | 3772 | 5F | | |
| 2415 | 6C | 3403 | 5C | 3773 | 5H | | |
| 2450 | 6D | 3404 | 6D | 3774 | 5G | | |
| 2451 | 6D | 3405 | 5C | 3799 | 2F | | |
| 2452 | 5E | 3406 | 4B | 3800 | 5H | | |
| 2453 | 6D | 3407 | 4B | 3801 | 6H | | |
| 2454 | 6D | 3408 | 5C | 3802 | 6H | | |
| 2455 | 4I | 3409 | 4C | 3803 | 6H | | |
| 2456 | 4I | 3410 | 5D | 3804 | 6G | | |
| 2457 | 3I | 3411 | 5E | 3805 | 6G | | |
| 2458 | 6I | 3412 | 5D | 3806 | 6G | | |
| 2459 | 4I | 3413 | 4D | 3807 | 6G | | |
| 2460 | 6I | 3414 | 5D | 3808 | 6I | | |
| 2461 | 3F | 3415 | 5C | 3809 | 6H | | |
| 2462 | 3I | 3416 | 4B | 3810 | 6H | | |
| 2463 | 3I | 3417 | 4B | 3811 | 6G | | |
| 2464 | 4G | 3450 | 6D | 3812 | 6F | | |
| 2465 | 5D | 3451 | 6D | 3813 | 5F | | |
| 2466 | 6C | 3452 | 6D | 3814 | 5F | | |
| 2501 | 4F | 3453 | 6D | 3815 | 5F | | |
| 2502 | 4F | 3454 | 5F | 3816 | 2F | | |
| 2503 | 4F | 3455 | 4H | 3817 | 5H | | |
| 2504 | 5F | 3456 | 4H | 3818 | 5H | | |
| 2505 | 5F | 3457 | 3H | 3819 | 5I | | |
| 2507 | 6F | 3458 | 3H | 3820 | 6I | | |
| 2508 | 6F | 3459 | 2I | 3823 | 2H | | |
| 2510 | 2G | 3460 | 4H | 3824 | 4F | | |
| 2512 | 6G | 3461 | 4H | 3825 | 4F | | |
| 2513 | 6H | 3462 | 4H | 3826 | 4G | | |
| 2600 | 5D | 3463 | 4H | 5052 | 2B | | |
| 2601 | 5E | 3464 | 6I | 5053 | 2B | | |
| 2602 | 4D | 3465 | 6I | 5054 | 3D | | |
| 2603 | 4D | 3466 | 7F | 5055 | 4D | | |
| 2604 | 2E | 3467 | 7F | 5056 | 3E | | |
| 2605 | 3E | 3468 | 2I | 5057 | 3D | | |
| 2606 | 4D | 3469 | 2I | 5058 | 2C | | |
| 2610 | 5E | 3471 | 6I | 5059 | 2C | | |
| 2611 | 5E | 3473 | 3H | 5070 | 2D | | |

MAIN PANEL RDS/DISPLAY PART

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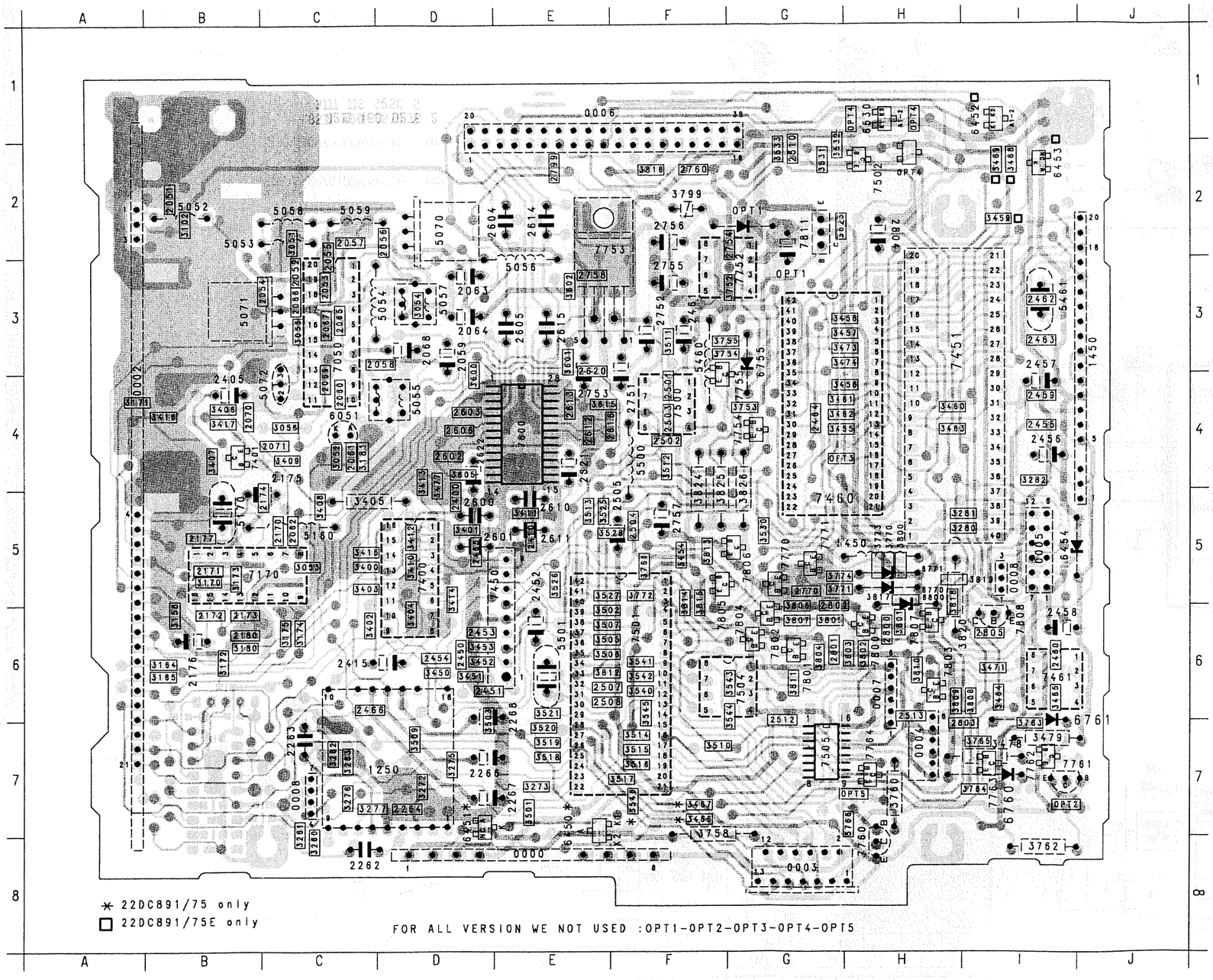
2450 F 2
2451 D 1
2452 E 2
2453 E 2
2454 H 2
2455 J 1
2456 J 2
2457 H 9
2458 J 2
2459 H 9
2460 D13
2461 H16
2462 J 4
2463 J 4
2464 H15
2465 D 3
2466 G 1
3450 F 2
3451 E 1
3452 E 1
3453 E 2
3454 D 4
3455 H 4
3456 H 5
3457 H10
3458 H 4
3459 A12
3460 F14
3461 E14
3462 E14
3463 F14
3464 D11
3465 D11
3466 C 6
3467 C 6
3468 B12
3469 A12
3471 C13
3473 G 6
3474 G 7
3477 D 2
3478 I 1
3479 I 1
3506 H11
3546 C 7
3758 C 8
5450 G 9
5460 G16
5461 J 4
6450 C 6
6451 C 7
6452 B12
6453 B12
6454 J 1
7450 J 2
7451 J 8
7460 I14
7461 D12
OPT-3 H10

* 22DC891/75 only
□ 22DC891/75E only


A
B
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D
E
F
G
H
I
J
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0006
0002
0000
0003
0008
0007
OPT1
OPT2
OPT3
OPT4
OPT5
7460
7451
7500
7505
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7805
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7811
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7753
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6789
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6799
6800
6801

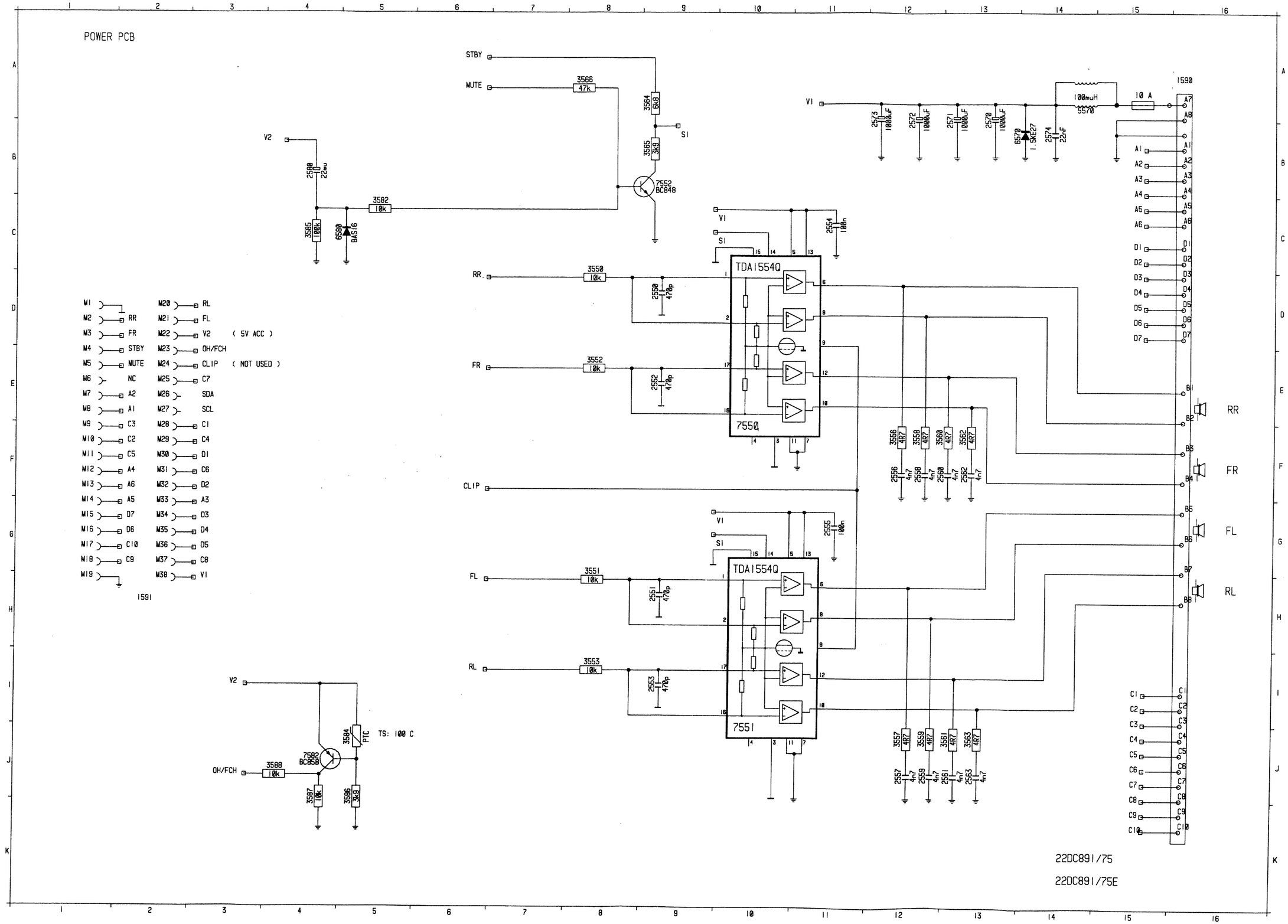
# MAIN PCB MICRO PART

IGN-KEY
AUDIO
IGNITION
HOLD
ON/OFF
PCB VOLUME
ON/OFF
BALANCE
VOLUME
0004
PCB FADER
FADER
SDVC
BASSE
TREBLE
0007
RDS
HEF4051B
1 OF 8 DECODER
LOGIC LEVEL CONVERSION
7505
TMP47C800N
7501
7504
TLC549
S/H
OUTPUT DATA REGISTER
SELECTOR & DRIVER
INTERNAL SYSTEM CLOCK
CONTROL LOGIC & OUTPUT COUNTER
A/D-CS
A/D-CLOCK
A/D-DATA
RESET3
SM-A0
MRO-SCA
SM-A1
START-MUTE
SUPPLY
SPEED
INF-TEMP
IGNITION
ON/OFF
ST-IND
SM-ENAB
SYNCH
LIGHT
PAUSE
7500
X2404P1
CONTROL LOGIC
ADDRESS CTR
MEMORY REGISTER
REGISTER COMPARATOR
TEST
SDA1 RADIO/AUDIO/RDS
SCL1 RADIO/AUDIO/RDS
RESET0 AUDIO
BLEEP RADIO
M/S RADIO
DBY-B/C AUDIO
DBY-ON/OFF AUDIO
ILL+ RDS
ILL- RDS
ILL-CONT AUDIO
LIGHT
+14V4 [+1] AUDIO
+14V4 [+2] AUDIO
+5V [+4] AUDIO
+5V [+5] AUDIO
GND AUDIO
TP AST B/C SLM
DOWN REV U RDS
P5 P6 UP EJEC
P1 P2 P3 P4
0003
FRONTAL FLEX FOIL
1504 1503 1502
1501
1500
22DC891/75
22DC891/75E

FOR ALL VERSION WE NOT USED : OPT-2 OPT-5

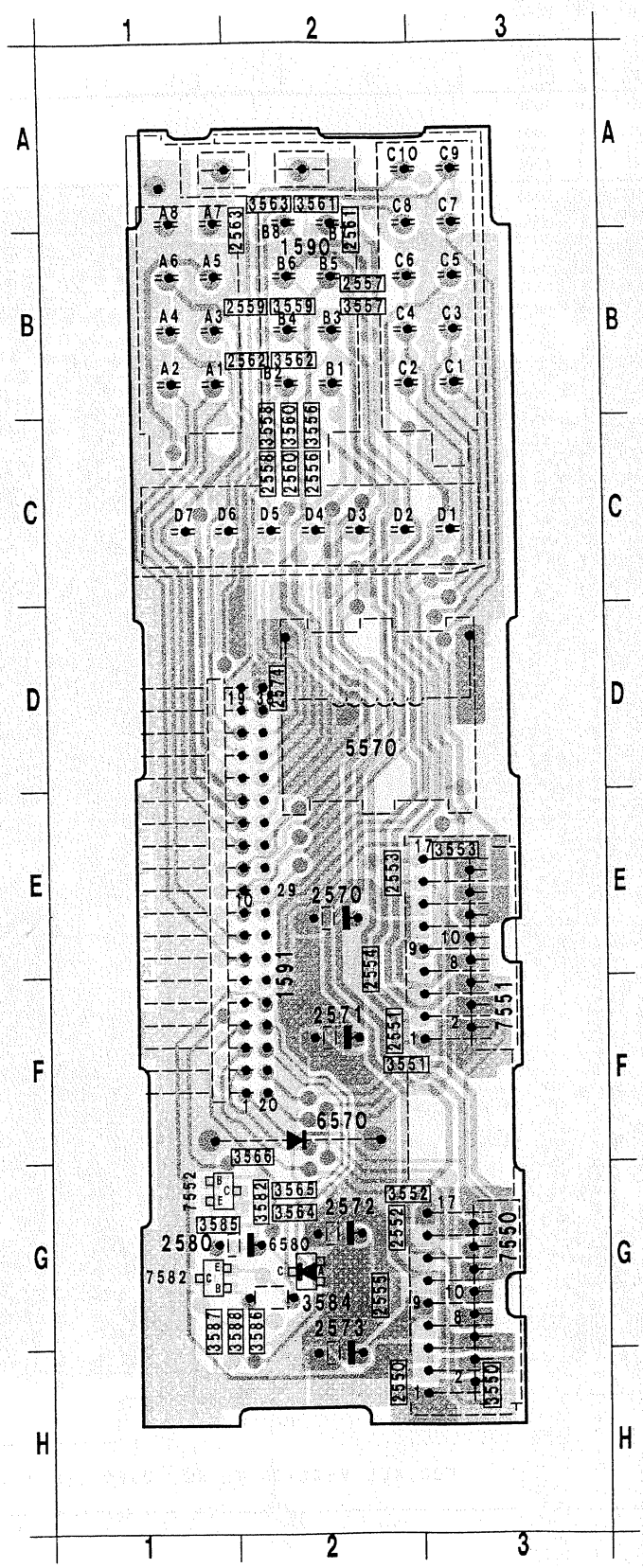
☐ 22DC891/75E only

POWER PCB

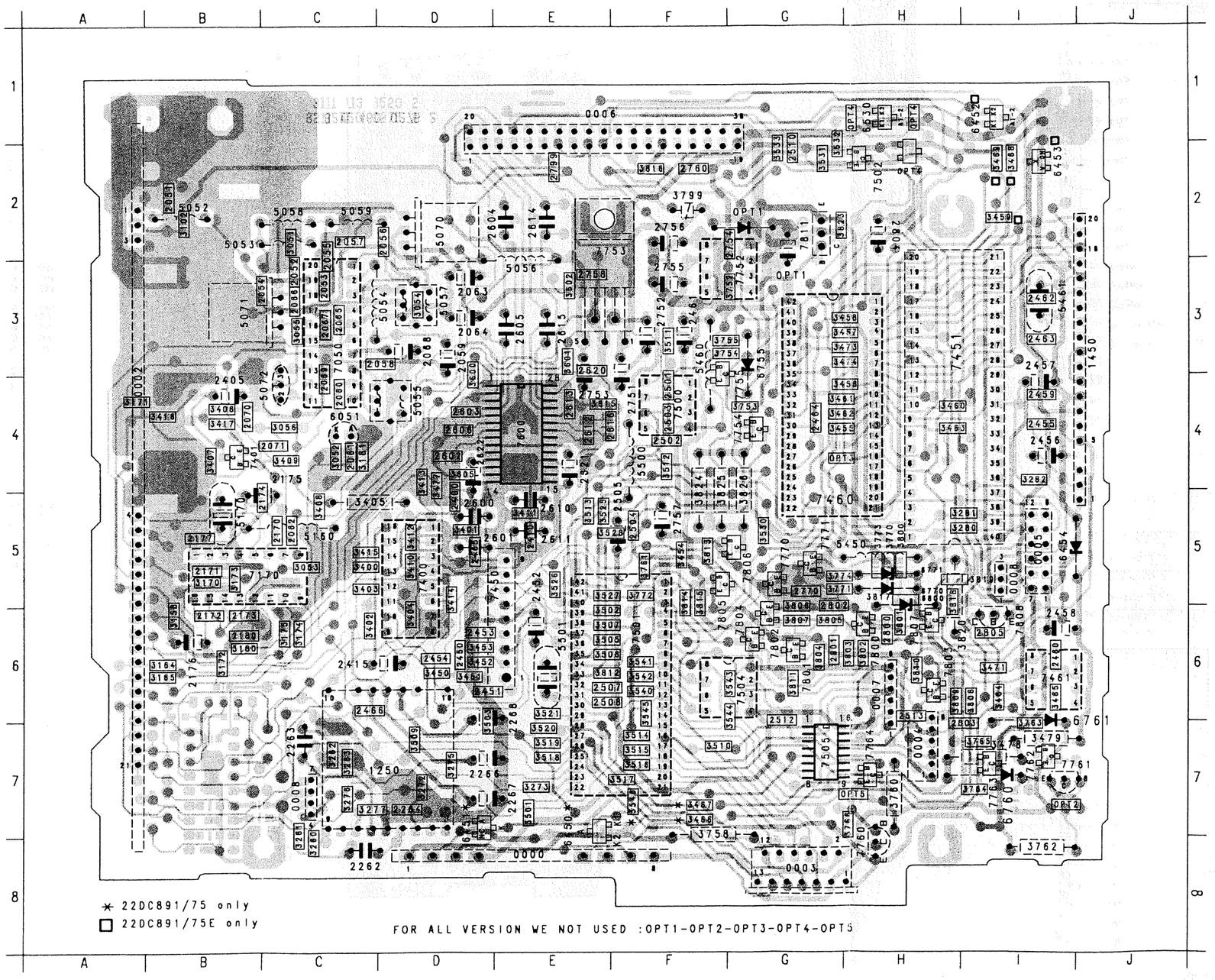



14

14a

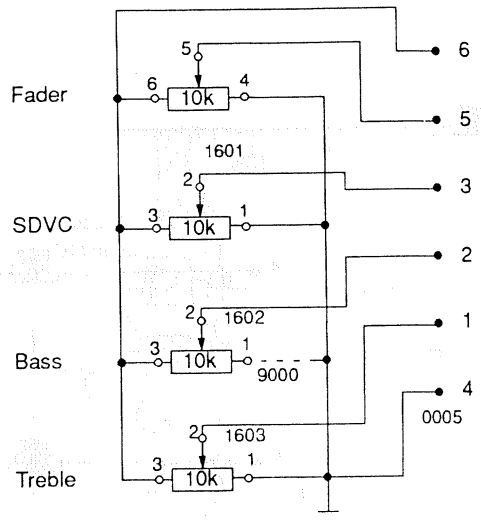


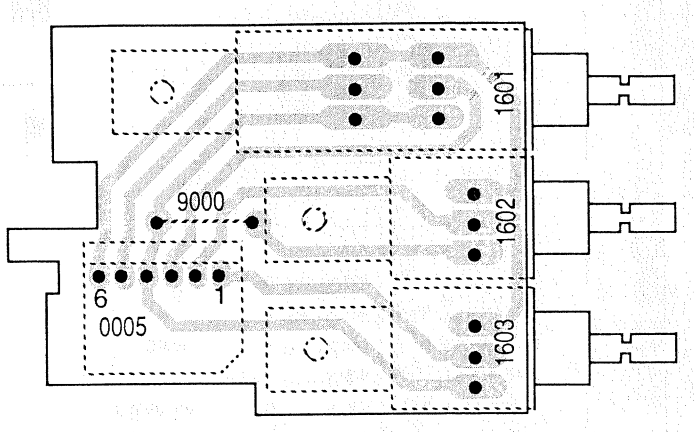

| | |
|---|---|
| 1590 | 2B |
| 1591 | 2E |
| 2550 | 2H |
| 2551 | 2F |
| 2552 | 2G |
| 2553 | 2E |
| 2554 | 2E |
| 2555 | 2G |
| 2556 | 2C |
| 2557 | 2B |
| 2558 | 2C |
| 2559 | 2B |
| 2560 | 2C |
| 2561 | 2A |
| 2562 | 2B |
| 2563 | 2A |
| 2570 | 2E |
| 2571 | 2F |
| 2572 | 2G |
| 2573 | 2G |
| 2574 | 2D |
| 2580 | G1 |
| 3550 | 3H |
| 3551 | 2F |
| 3552 | 2G |
| 3553 | 3E |
| 3556 | 2C |
| 3557 | 2B |
| 3558 | 2C |
| 3559 | 2B |
| 3560 | 2C |
| 3561 | 2A |
| 3562 | 2B |
| 3563 | 2A |
| 3564 | 2G |
| 3565 | 2G |
| 3566 | 2F |
| 3582 | 2G |
| 3584 | 2G |
| 3585 | 1G |
| 3586 | 2G |
| 3587 | 1G |
| 3588 | 2G |
| 5570 | 2D |
| 6570 | 2F |
| 6580 | 2G |
| 7550 | 3G |
| 7551 | 3F |
| 7552 | 1G |
| 7582 | 1G |



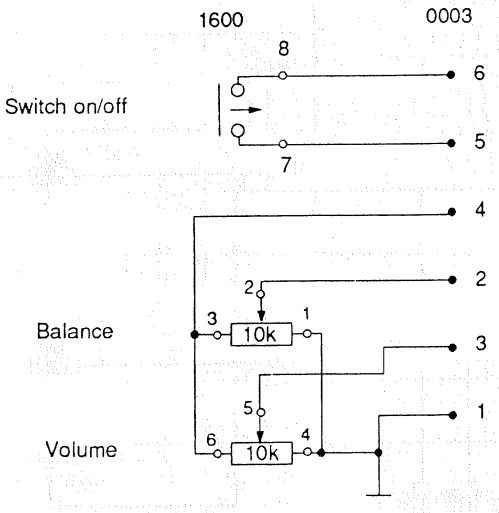

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| OPT1 | 3G | 2612 | 4E | 3474 | 3H | 5071 | 3B |
| OPT1 | 2G | 2613 | 4E | 3477 | 4D | 5072 | 4C |
| OPT2 | 7I | 2614 | 2E | 3478 | 7I | 5160 | 5C |
| OPT3 | 4G | 2615 | 3E | 3479 | 7I | 5170 | 5B |
| OPT4 | 1H | 2616 | 4F | 3501 | 7E | 5450 | 5H |
| OPT4 | 1H | 2620 | 3E | 3502 | 6F | 5460 | 3F |
| OPT4 | 2H | 2621 | 4E | 3503 | 6D | 5461 | 3I |
| OPT5 | 7H | 2622 | 4D | 3505 | 6F | 5500 | 4F |
| 0000 | 8E | 2751 | 4F | 3506 | 6F | 5501 | 6E |
| 0002 | 4B | 2752 | 3F | 3507 | 6F | 6051 | 4C |
| 0003 | 8G | 2753 | 4E | 3509 | 7D | 6450 | 7E |
| 0004 | 7H | 2754 | 2G | 3510 | 7F | 6451 | 7D |
| 0005 | 5I | 2755 | 3F | 3511 | 3F | 6452 | 1I |
| 0006 | 1E | 2756 | 2F | 3512 | 4F | 6453 | 2I |
| 0007 | 6H | 2757 | 5F | 3513 | 5E | 6454 | 5I |
| 0008 | 7C | 2758 | 3E | 3514 | 7F | 6530 | 1H |
| 0008 | 5I | 2760 | 2F | 3515 | 7F | 6755 | 3G |
| 1250 | 7D | 2770 | 5G | 3516 | 7F | 6760 | 7I |
| 1450 | 3J | 2799 | 2E | 3517 | 7F | 6761 | 7J |
| 2051 | 2B | 2800 | 6H | 3518 | 7E | 6770 | 5H |
| 2052 | 3C | 2801 | 6G | 3519 | 7E | 6771 | 5H |
| 2053 | 3C | 2802 | 6G | 3520 | 7E | 6800 | 5H |
| 2054 | 3C | 2803 | 7I | 3521 | 6E | 7050 | 3C |
| 2055 | 2C | 2804 | 2H | 3525 | 5E | 7170 | 5C |
| 2056 | 2D | 2805 | 6I | 3526 | 5E | 7400 | 5D |
| 2057 | 2C | 3051 | 2C | 3527 | 5F | 7401 | 4B |
| 2058 | 3D | 3052 | 4C | 3528 | 5F | 7450 | 5E |
| 2059 | 3D | 3053 | 5C | 3530 | 5G | 7451 | 3I |
| 2060 | 4C | 3054 | 3D | 3531 | 2G | 7460 | 5G |
| 2061 | 4C | 3055 | 3C | 3532 | 2G | 7461 | 6I |
| 2062 | 5C | 3056 | 4C | 3533 | 2G | 7500 | 4F |
| 2063 | 3D | 3102 | 2B | 3540 | 6F | 7501 | 6F |
| 2064 | 3D | 3158 | 6B | 3541 | 6F | 7502 | 2H |
| 2065 | 3C | 3164 | 6B | 3542 | 6F | 7504 | 6G |
| 2066 | 3C | 3165 | 6B | 3543 | 6G | 7505 | 7G |
| 2067 | 3C | 3170 | 5B | 3544 | 6G | 7600 | 4E |
| 2068 | 3D | 3171 | 4A | 3545 | 6F | 7752 | 3G |
| 2069 | 4C | 3172 | 6B | 3546 | 7F | 7753 | 2F |
| 2070 | 4B | 3173 | 5B | 3600 | 4D | 7754 | 4G |
| 2071 | 4C | 3174 | 6C | 3601 | 3E | 7755 | 4G |
| 2170 | 5C | 3175 | 6C | 3602 | 3E | 7760 | 8H |
| 2171 | 5B | 3180 | 6B | 3605 | 4D | 7761 | 7I |
| 2172 | 6B | 3181 | 4C | 3615 | 4E | 7762 | 7I |
| 2173 | 6B | 3260 | 8C | 3752 | 3G | 7763 | 7I |
| 2174 | 5C | 3261 | 7C | 3753 | 4G | 7764 | 7H |
| 2175 | 4C | 3262 | 7C | 3754 | 3G | 7770 | 5G |
| 2176 | 6B | 3263 | 7C | 3755 | 3G | 7771 | 5G |
| 2177 | 5B | 3272 | 7D | 3758 | 7F | 7800 | 6H |
| 2180 | 6B | 3273 | 7E | 3760 | 7H | 7801 | 6G |
| 2262 | 8C | 3275 | 7D | 3761 | 5F | 7802 | 6G |
| 2263 | 7C | 3276 | 7C | 3762 | 8I | 7803 | 6H |
| 2264 | 7D | 3277 | 7C | 3763 | 7I | 7804 | 6G |
| 2266 | 7D | 3280 | 5I | 3764 | 7I | 7805 | 6F |
| 2267 | 7E | 3281 | 5I | 3765 | 7I | 7806 | 5G |
| 2268 | 6E | 3282 | 4I | 3766 | 7H | 7807 | 6H |
| 2400 | 5D | 3400 | 5C | 3770 | 5H | 7808 | 6I |
| 2405 | 4B | 3401 | 5D | 3771 | 5G | 7811 | 2G |
| 2410 | 5E | 3402 | 6C | 3772 | 5F | | |
| 2415 | 6C | 3403 | 5C | 3773 | 5H | | |
| 2450 | 6D | 3404 | 6D | 3774 | 5G | | |
| 2451 | 6D | 3405 | 5C | 3799 | 2F | | |
| 2452 | 5E | 3406 | 4B | 3800 | 5H | | |
| 2453 | 6D | 3407 | 4B | 3801 | 6H | | |
| 2454 | 6D | 3408 | 5C | 3802 | 6H | | |
| 2455 | 4I | 3409 | 4C | 3803 | 6H | | |
| 2456 | 4I | 3410 | 5D | 3804 | 6G | | |
| 2457 | 3I | 3411 | 5E | 3805 | 6G | | |
| 2458 | 6I | 3412 | 5D | 3806 | 6G | | |
| 2459 | 4I | 3413 | 4D | 3807 | 6G | | |
| 2460 | 6I | 3414 | 5D | 3808 | 6I | | |
| 2461 | 3F | 3415 | 5C | 3809 | 6H | | |
| 2462 | 3I | 3416 | 4B | 3810 | 6H | | |
| 2463 | 3I | 3417 | 4B | 3811 | 6G | | |
| 2464 | 4G | 3450 | 6D | 3812 | 6F | | |
| 2465 | 5D | 3451 | 6D | 3813 | 5F | | |
| 2466 | 6C | 3452 | 6D | 3814 | 5F | | |
| 2501 | 4F | 3453 | 6D | 3815 | 5F | | |
| 2502 | 4F | 3454 | 5F | 3816 | 2F | | |
| 2503 | 4F | 3455 | 4H | 3817 | 5H | | |
| 2504 | 5F | 3456 | 4H | 3818 | 5H | | |
| 2505 | 5F | 3457 | 3H | 3819 | 5I | | |
| 2507 | 6F | 3458 | 3H | 3820 | 6I | | |
| 2508 | 6F | 3459 | 2I | 3823 | 2H | | |
| 2510 | 2G | 3460 | 4H | 3824 | 4F | | |
| 2512 | 6G | 3461 | 4H | 3825 | 4F | | |
| 2513 | 6H | 3462 | 4H | 3826 | 4G | | |
| 2600 | 5D | 3463 | 4H | 5052 | 2B | | |
| 2601 | 5E | 3464 | 6I | 5053 | 2B | | |
| 2602 | 4D | 3465 | 6I | 5054 | 3D | | |
| 2603 | 4D | 3466 | 7F | 5055 | 4D | | |
| 2604 | 2E | 3467 | 7F | 5056 | 3E | | |
| 2605 | 3E | 3468 | 2I | 5057 | 3D | | |
| 2606 | 4D | 3469 | 2I | 5058 | 2C | | |
| 2610 | 5E | 3471 | 6I | 5059 | 2C | | |
| 2611 | 5E | 3473 | 3H | 5070 | 2D | | |

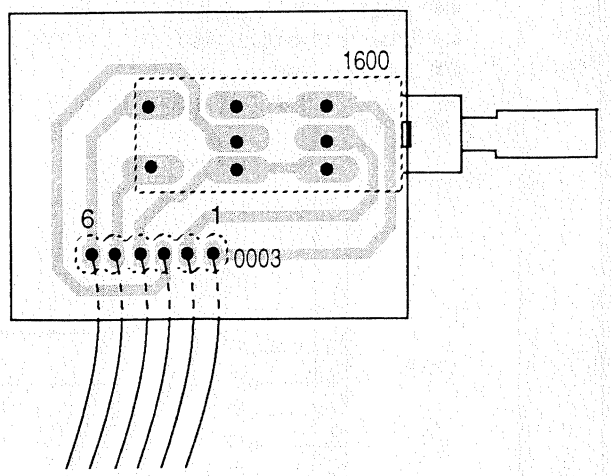
## Tone-Fader PCB



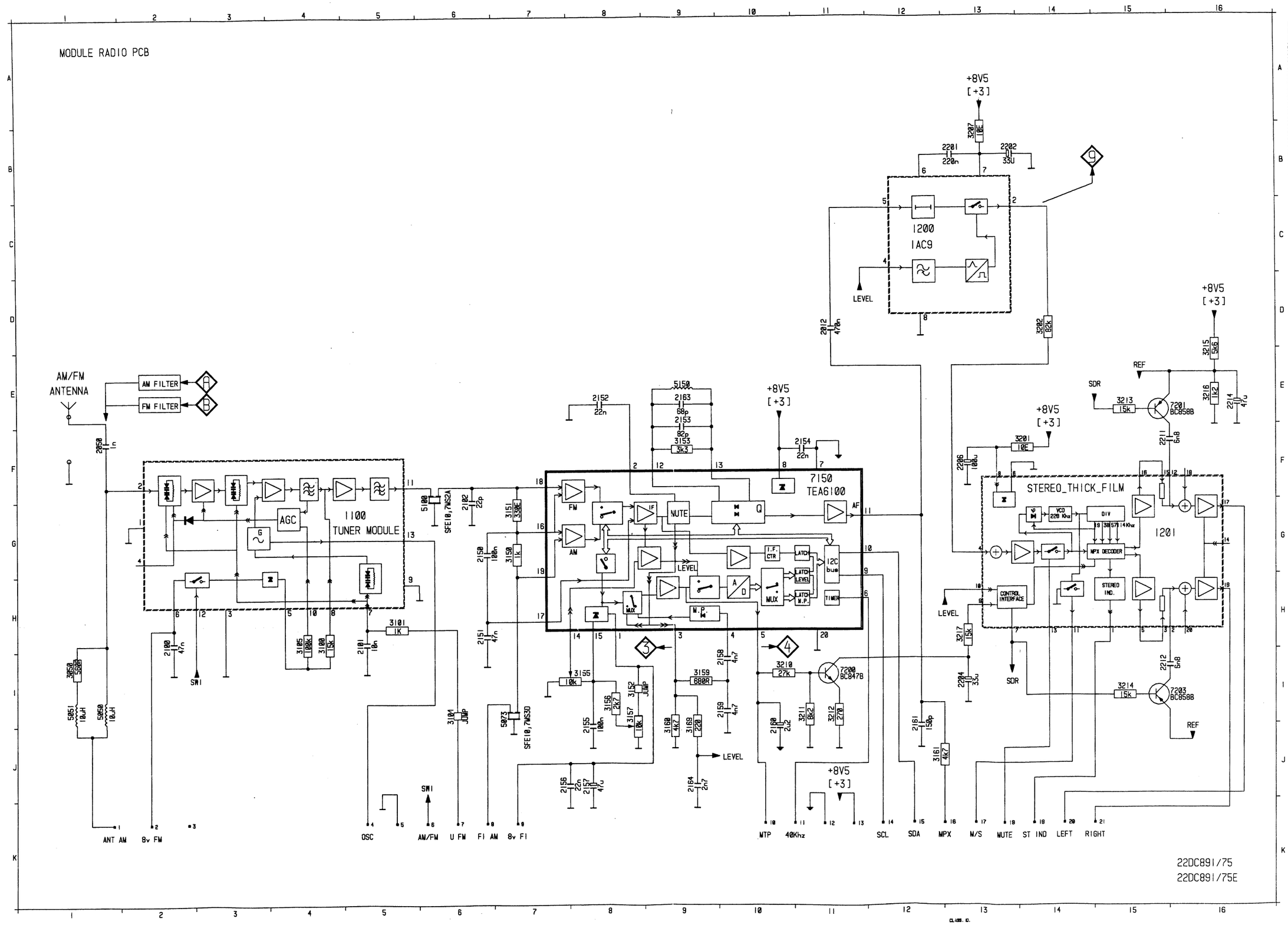

## Volume PCB




To main PCB

MODULE RADIO PCB





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1201 G15
2012 D11
2050 F 1
2100 H 2
2101 H 5
2102 G 6
2150 G 6
2151 H 6
2152 E 8
2153 E 9
2154 F11
2155 J 8
2156 J 7
2157 J 8
2158 I10
2159 I10
2160 J10
2161 J12
2201 B13
2202 B13
2204 I13
2206 F13
2211 F15
2212 I15
2214 E16
3050 I 1
3100 H 4
3101 H 5
3104 I 6
3105 H 4
3150 G 7
3151 G 7
3152 I 8
3153 F 9
3155 I 8
3156 I 8
3157 I 8
3159 I 9
3160 J 9
3169 J 9
3201 F14
3202 D14
3207 B13
3210 I10
3211 J11
3212 I11
3213 E15
3214 I15
3215 E16
3216 E16
3217 H13
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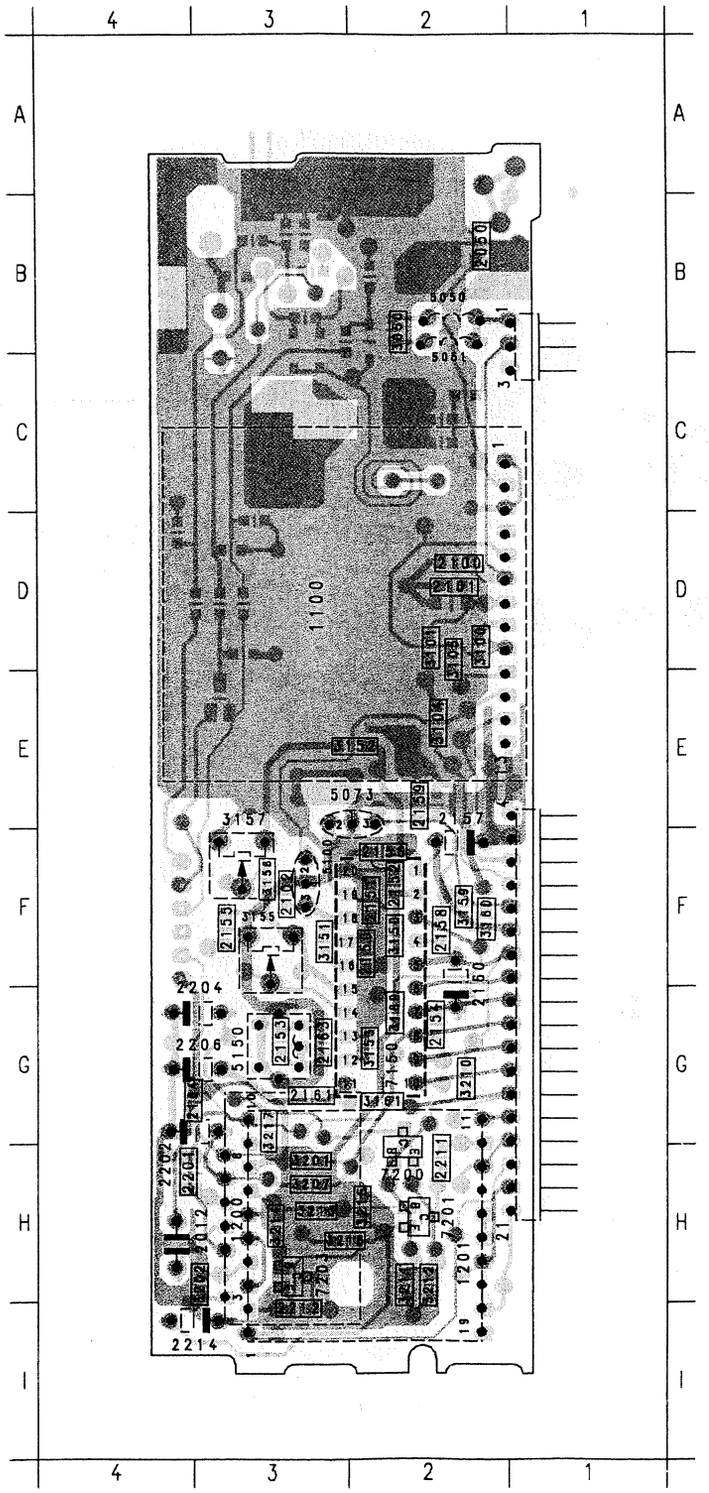
7200 I11
7201 E16
7203 I16

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1201 H 2
2012 H 3
2050 B 2

2100 D 2
2101 D 2
2102 F 3
2150 F 2
2151 F 2

2152 F 2
2153 G 3
2154 G 2
2155 F 3
2156 F 2

2157 E 2
2158 F 2
2159 E 2
2160 F 2
2161 G 3

2163 G 3
2164 G 4
2201 H 4
2202 H 4
2204 G 3

2206 G 3
2211 H 2
2212 I 3
2214 I 4
3050 B 2

3100 D 2
3101 D 2
3104 E 2
3105 D 2
3150 F 2

3151 F 3
3152 E 2
3153 G 2
3155 F 3
3155 F 3

3156 F 3
3157 E 3
3157 F 3
3159 F 2
3160 F 2

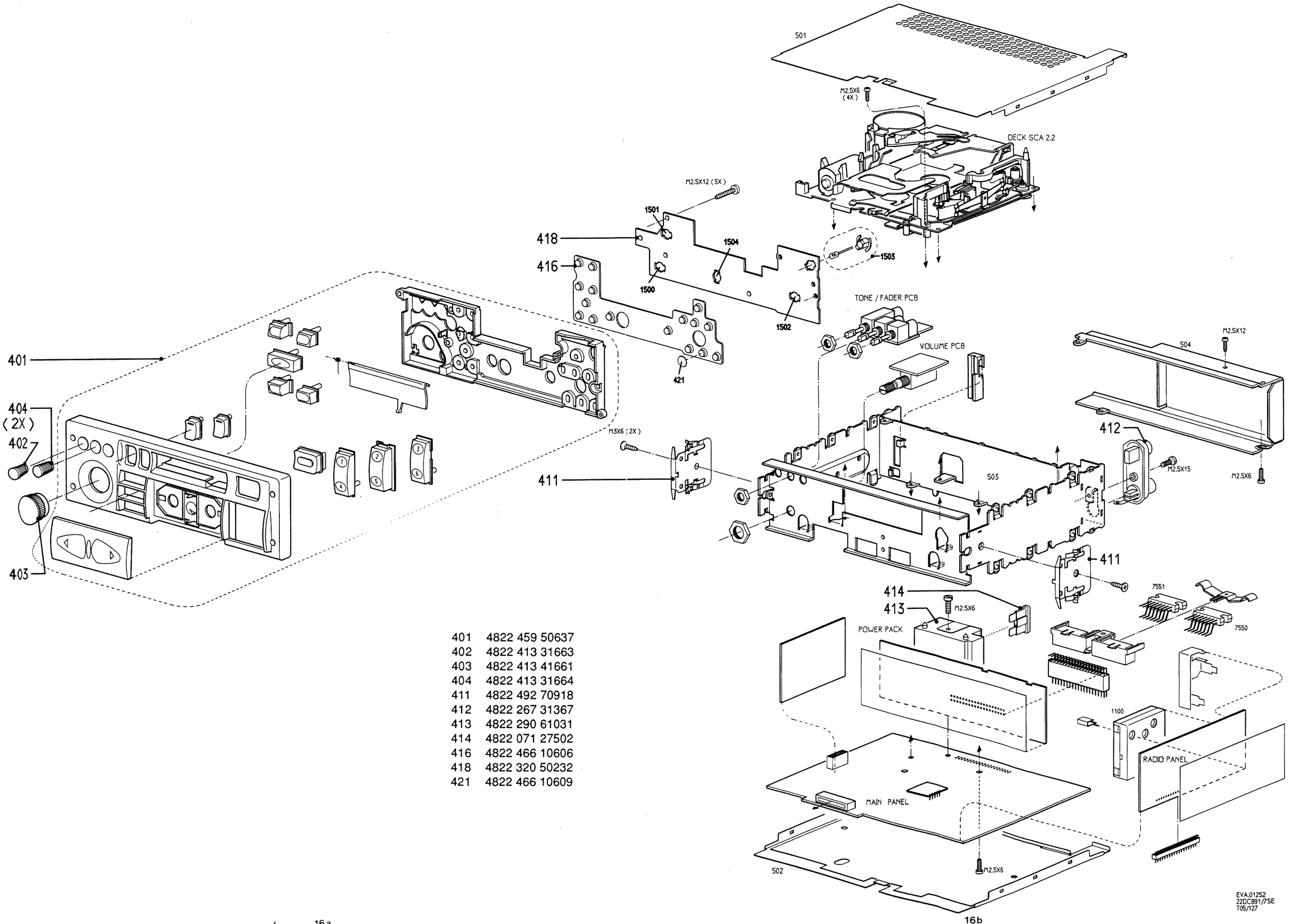
3161 G 2
3169 G 2
3201 H 3
3202 H 3
3207 H 3

3210 G 2
3211 H 2
3212 H 2
3213 H 3
3214 H 3

3215 H 2
3216 H 3
3217 G 3
5050 B 2
5051 C 2

5073 E 2
5100 F 3
5150 G 3
5150 G 3
7150 G 2

7200 H 2
7201 H 2
7203 H 3

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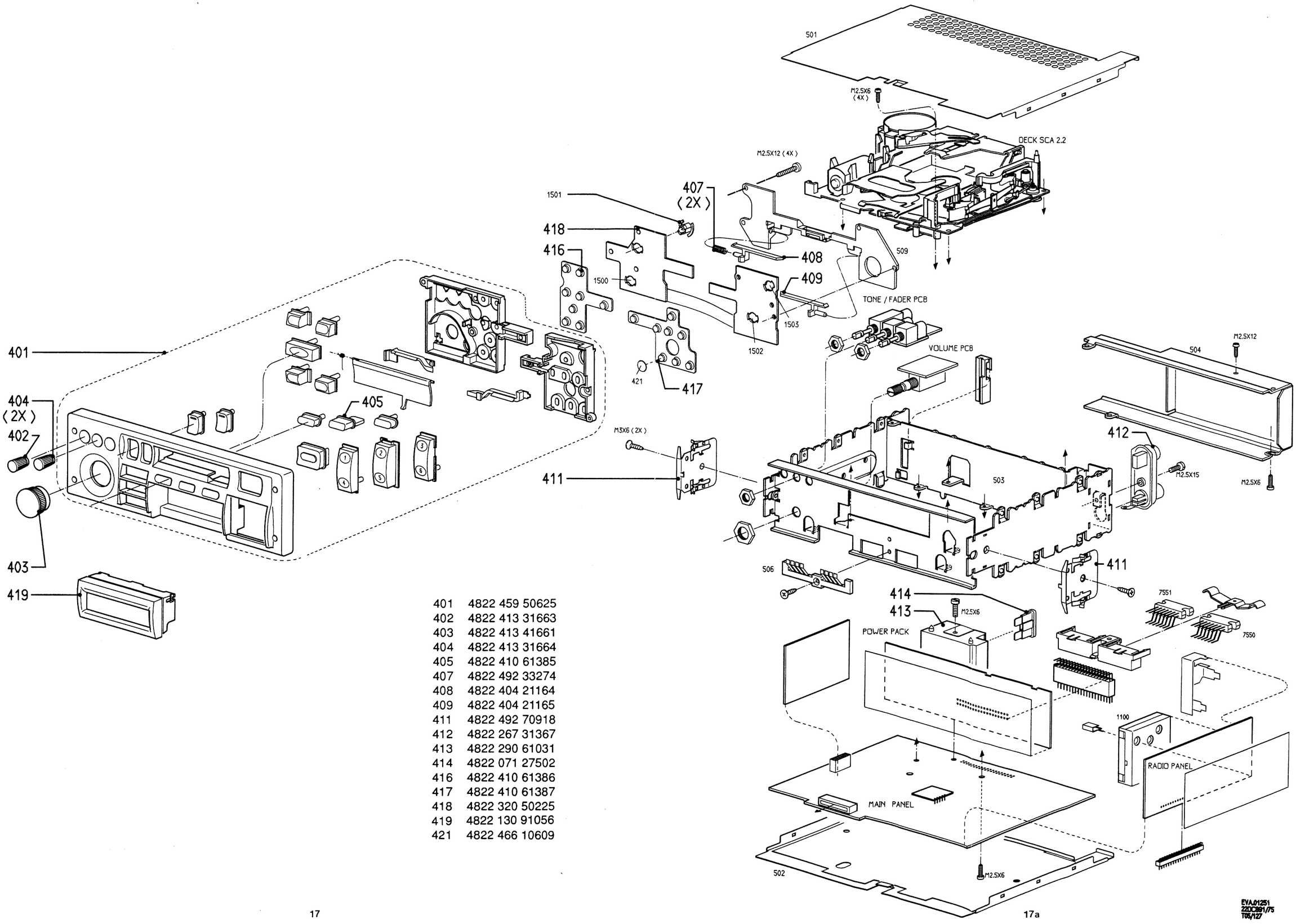
|---|---|
| 401 | 4822 459 50637 |
| 402 | 4822 413 31663 |
| 403 | 4822 413 41661 |
| 404 | 4822 413 31664 |
| 411 | 4822 492 70918 |
| 412 | 4822 267 31367 |
| 413 | 4822 290 61031 |
| 414 | 4822 071 27502 |
| 416 | 4822 466 10606 |
| 418 | 4822 320 50232 |
| 421 | 4822 466 10609 |

EVA.01252
22DC891/75E
T05/127

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|---|---|
| 401 | 4822 459 50625 |
| 402 | 4822 413 31663 |
| 403 | 4822 413 41661 |
| 404 | 4822 413 31664 |
| 405 | 4822 410 61385 |
| 407 | 4822 492 33274 |
| 408 | 4822 404 21164 |
| 409 | 4822 404 21165 |
| 411 | 4822 492 70918 |
| 412 | 4822 267 31367 |
| 413 | 4822 290 61031 |
| 414 | 4822 071 27502 |
| 416 | 4822 410 61386 |
| 417 | 4822 410 61387 |
| 418 | 4822 320 50225 |
| 419 | 4822 130 91056 |
| 421 | 4822 466 10609 |





EVA01251
22DC891/75
T05/127

**Miscellaneous**

| | | |
|---|---|---|
| 1100 | 4822 210 10431 | TUNER FM ASSY |
| 1200 | 4822 214 51883 | IAC9 |
| 1201 | 4822 214 51856 | STD6 |
| 1250 | 4822 209 62773 | NR9550 |
| 1450 | 4822 214 51875 | |
| 1500 | 4822 134 41083 | LAMP 12V 60MA |
| 1501 | 4822 134 41084 | LAMP 12V 100MA |
| 1502 | 4822 134 41084 | LAMP 12V 100MA |
| 1503 | 4822 134 41084 | LAMP 12V 100MA |
| 1504 | 4822 134 41084 | LAMP 12V 100MA |
| 1600 | 4822 100 11754 | VOLUME |
| 1601 | 4822 100 11753 | FADER |
| 1602 | 4822 100 11752 | TONE |
| 1603 | 4822 100 11752 | TONE |

| | | |
|---|---|---|
| 2012 | 4822 121 51252 | 470NF 5% 63V |
| 2050 | 5322 122 31647 | 1NF10%X7R 63V |
| 2051 | 5322 122 32286 | 3,3PF 5%NP0 50V |
| 2052 | 5322 122 32287 | 4,7PF 5%NP0 50V |
| 2053 | 5322 122 32965 | 18PF 5%NPO 50V |
| 2054 | 4822 122 33514 | 68PF 5%NP0 50V |
| 2055 | 4822 122 33515 | 82PF 5%NP0 63V |
| 2056 | 4822 122 33514 | 68PF 5%NP0 50V |
| 2057 | 4822 122 33177 | 10NF 20% X7R 50V |
| 2058 | 4822 122 33496 | 100NF10%X7R 63V |
| 2059 | 4822 124 22403 | 10µF 20% 16V |
| 2060 | 4822 122 33216 | 270PF 5%NP0 50V |
| 2061 | 4822 122 33555 | 22NF10% |
| 2062 | 4822 122 33216 | 270PF 5%NP0 50V |
| 2063 | 4822 124 41795 | 1µF20% 50V |
| 2064 | 4822 124 40272 | 33µF20% 16V |
| 2065 | 4822 122 33496 | 100NF10%X7R 63V |
| 2066 | 4822 122 33213 | 22PF 5% NP0 0805 |
| 2067 | 4822 122 33496 | 100NF10%X7R 63V |
| 2068 | 4822 124 23624 | 47µF20% 16V |
| 2069 | 4822 122 33339 | 4,7NF10%X7R 50V 0805 |
| 2070 | 4822 122 33219 | 1,8NF10%X7R 50V |
| 2071 | 4822 122 33496 | 100NF10%X7R 63V |
| 2100 | 4822 122 32542 | 47NF10%X7R 63V |
| 2101 | 4822 122 33177 | 10NF 20% X7R 50V |
| 2102 | 4822 122 33213 | 22PF 5% NP0 0805 |
| 2150 | 4822 122 33496 | 100NF10%X7R 63V |
| 2151 | 4822 122 32542 | 47NF10%X7R 63V |
| 2152 | 4822 122 33555 | 22NF10% |
| 2153 | 4822 122 33515 | 82PF 5%NP0 63V |
| 2154 | 4822 122 33555 | 22NF10% |
| 2155 | 4822 122 33496 | 100NF10%X7R 63V |
| 2156 | 4822 122 33555 | 22NF10% |
| 2157 | 4822 124 23624 | 47µF20% 16V |
| 2158 | 4822 122 33336 | 8,2NF10%X7R 50V |
| 2159 | 4822 122 32542 | 47NF10%X7R 63V |
| 2160 | 4822 124 40244 | 2,2µF20% 63V |
| 2161 | 4822 122 33283 | 150PF 5%NP0 50V |
| 2163 | 4822 122 33514 | 68PF 5%NP0 50V |
| 2164 | 4822 122 33176 | 2,7NF 20% X7R 50V |
| 2170 | 4822 122 33555 | 22NF10% |
| 2171 | 5322 122 31866 | 6,8NF10%X7R 63V |
| 2172 | 4822 122 32891 | 68NF10%X7R 63V |
| 2173 | 4822 122 33325 | 470NF 16V |
| 2174 | 4822 122 33555 | 22NF10% |
| 2175 | 4822 124 40272 | 33µF20% 16V |
| 2176 | 4822 124 23432 | 100µF20% 10V |
| 2177 | 4822 122 33283 | 150PF 5%NP0 50V |
| 2180 | 4822 122 32183 | 56NF10% 50V |
| 2201 | 4822 122 32916 | 220NF10%X7R 63V |
| 2202 | 4822 124 40272 | 33µF20% 16V |
| 2204 | 4822 124 40272 | 33µF20% 16V |
| 2206 | 4822 124 23432 | 100µF20% 10V |
| 2211 | 5322 122 31866 | 6,8NF10%X7R 63V |
| 2212 | 5322 122 31866 | 6,8NF10%X7R 63V |
| 2214 | 4822 124 23624 | 47µF20% 16V |
| 2262 | 4822 121 42408 | 220NF 5% 63V |
| 2263 | 4822 121 42408 | 220NF 5% 63V |
| 2264 | 4822 122 33555 | 22NF10% |
| 2266 | 4822 124 23432 | 100µF20% 10V |
| 2267 | 4822 124 23432 | 100µF20% 10V |
| 2268 | 4822 124 23432 | 100µF20% 10V |
| 2400 | 4822 122 33221 | 5N6 10% X7R 0805 |
| 2405 | 4822 124 40244 | 2,2µF20% 63V |
| 2410 | 4822 122 33221 | 5N6 10% X7R 0805 |
| 2415 | 4822 124 23624 | 47µF20% 16V |
| 2450 | 4822 122 33218 | 820P 10% X7R 0805 |
| 2451 | 4822 122 33496 | 100NF10%X7R 63V |
| 2452 | 4822 124 40244 | 2,2µF20% 63V |
| 2453 | 4822 122 33496 | 100NF10%X7R 63V |
| 2454 | 4822 122 33496 | 100NF10%X7R 63V |
| 2455 | 4822 122 33555 | 22NF10% |
| 2456 | 4822 124 40272 | 33µF20% 16V |
| 2457 | 4822 124 41796 | 22µF20% 16V |
| 2458 | 4822 124 41796 | 22µF20% 16V |
| 2459 | 4822 122 33555 | 22NF10% |
| 2460 | 4822 122 33496 | 100NF10%X7R 63V |
| 2461 | 4822 124 41796 | 22µF20% 16V |
| 2462 | 4822 122 33214 | 27P 5% NP0 0805 |
| 2463 | 4822 122 33214 | 27P 5% NP0 0805 |
| 2464 | 4822 122 33555 | 22NF10% |
| 2465 | 4822 122 33555 | 22NF10% |
| 2466 | 4822 122 32916 | 220NF10%X7R 63V |
| 2501 | 4822 122 33496 | 100NF10%X7R 63V |
| 2502 | 5322 122 32448 | 10PF 5% 50V |
| 2503 | 5322 122 32448 | 10PF 5% 50V |
| 2504 | 4822 122 33555 | 22NF10% |
| 2505 | 4822 124 23768 | 220µF20% 10V |
| 2507 | 4822 122 33215 | 33PF 5%NP0 50V |
| 2508 | 4822 122 33215 | 33PF 5%NP0 50V |
| 2510 | 4822 122 33555 | 22NF10% |
| 2512 | 4822 122 33218 | 820P 10% X7R 0805 |
| 2513 | 4822 122 33555 | 22NF10% |
| 2550 | 5322 122 32268 | 470PF 10% 50V |
| 2551 | 5322 122 32268 | 470PF 10% 50V |
| 2552 | 5322 122 32268 | 470PF 10% 50V |
| 2553 | 5322 122 32268 | 470PF 10% 50V |
| 2554 | 4822 122 33496 | 100NF10%X7R 63V |
| 2555 | 4822 122 33496 | 100NF10%X7R 63V |
| 2556 | 4822 122 33339 | 4,7NF10%X7R 50V 0805 |
| 2557 | 4822 122 33339 | 4,7NF10%X7R 50V 0805 |
| 2558 | 4822 122 33339 | 4,7NF10%X7R 50V 0805 |
| 2559 | 4822 122 33339 | 4,7NF10%X7R 50V 0805 |
| 2560 | 4822 122 33339 | 4,7NF10%X7R 50V 0805 |
| 2561 | 4822 122 33339 | 4,7NF10%X7R 50V 0805 |
| 2562 | 4822 122 33339 | 4,7NF10%X7R 50V 0805 |





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|---|---|---|
| 2563 | 4822 122 33339 | 4,7NF10%X7R 50V 0805 |
| 2570 | 4822 124 40201 | 1000µF 20% 16V |
| 2571 | 4822 124 40201 | 1000µF 20% 16V |
| 2572 | 4822 124 40201 | 1000µF 20% 16V |
| 2573 | 4822 124 40201 | 1000µF 20% 16V |
| 2574 | 4822 122 33555 | 22NF10% |
| 2580 | 4822 124 40804 | 22µF 20% 50V |
| 2600 | 4822 121 42408 | 220NF 5% 63V |
| 2601 | 4822 121 42408 | 220NF 5% 63V |
| 2602 | 4822 122 32916 | 220NF10%X7R 63V |
| 2603 | 4822 122 33221 | 5N6 10% X7R 0805 |
| 2604 | 4822 121 51252 | 470NF 5% 63V |
| 2605 | 4822 121 51252 | 470NF 5% 63V |
| 2606 | 4822 122 32916 | 220NF10%X7R 63V |
| 2610 | 4822 121 42408 | 220NF 5% 63V |
| 2611 | 4822 121 42408 | 220NF 5% 63V |
| 2612 | 4822 122 32916 | 220NF10%X7R 63V |
| 2613 | 4822 122 33221 | 5N6 10% X7R 0805 |
| 2614 | 4822 121 51252 | 470NF 5% 63V |
| 2615 | 4822 121 51252 | 470NF 5% 63V |
| 2616 | 4822 122 32916 | 220NF10%X7R 63V |
| 2620 | 4822 122 33496 | 100NF10%X7R 63V |
| 2621 | 4822 124 41796 | 22µF20% 16V |
| 2622 | 4822 124 23624 | 47µF20% 16V |
| 2751 | 4822 124 40244 | 2,2µF20% 63V |
| 2752 | 4822 124 40244 | 2,2µF20% 63V |
| 2753 | 4822 124 40244 | 2,2µF20% 63V |
| 2754 | 4822 122 33496 | 100NF10%X7R 63V |
| 2755 | 4822 124 40244 | 2,2µF20% 63V |
| 2756 | 4822 124 23768 | 220µF20% 10V |
| 2757 | 4822 124 40244 | 2,2µF20% 63V |
| 2758 | 4822 122 33555 | 22NF10% |
| 2760 | 4822 122 33496 | 100NF10%X7R 63V |
| 2770 | 4822 122 33496 | 100NF10%X7R 63V |
| 2799 | 4822 122 33339 | 4,7NF10%X7R 50V 0805 |
| 2800 | 4822 122 33496 | 100NF10%X7R 63V |
| 2801 | 4822 122 33496 | 100NF10%X7R 63V |
| 2802 | 4822 122 33496 | 100NF10%X7R 63V |
| 2803 | 4822 122 33555 | 22NF10% |
| 2804 | 4822 124 40244 | 2,2µF20% 63V |
| 2805 | 4822 122 33555 | 22NF10% |

| | | |
|---|---|---|
| 3050 | 4822 051 20561 | 560Ω 5% 0,1W |
| 3051 | 4822 051 20471 | 470Ω 5% 0,1W |
| 3052 | 4822 051 20224 | 220k5% 0,1W |
| 3053 | 4822 051 20472 | 4k70 5% 0,1W |
| 3054 | 4822 051 20102 | 1k 5% 0,1W |
| 3055 | 4822 051 20102 | 1k 5% 0,1W |
| 3056 | 4822 051 20223 | 22k 5% 0,1W |
| 3100 | 4822 051 20153 | 15k 5% 0,1W |
| 3101 | 4822 051 20102 | 1k 5% 0,1W |
| 3102 | 4822 051 20109 | 10Ω 5% 0,1W |
| 3104 | 4822 051 10008 | 0Ω 5% 0,25W |
| 3105 | 4822 051 20104 | 100k 5% 0,1W |
| 3150 | 4822 051 20102 | 1k 5% 0,1W |
| 3151 | 4822 051 20331 | 330Ω 5% 0,1W |
| 3152 | 4822 051 10008 | 0Ω 5% 0,25W |
| 3153 | 4822 051 20332 | 3k30 5% 0,1W |
| 3155 | 4822 100 20166 | 10k 30%LIN 0,1W |
| 3156 | 4822 051 20272 | 2k70 5% 0,1W |
| 3157 | 4822 100 20166 | 10k 30%LIN 0,1W |
| 3158 | 4822 051 20109 | 10Ω 5% 0,1W |
| 3159 | 4822 051 20681 | 680Ω 5% 0,1W |
| 3160 | 4822 051 20472 | 4k70 5% 0,1W |
| 3161 | 4822 051 20472 | 4k70 5% 0,1W |
| 3164 | 4822 051 20333 | 33k 5% 0,1W |
| 3165 | 4822 051 20102 | 1k 5% 0,1W |
| 3169 | 4822 051 20221 | 220Ω 5% 0,1W |
| 3170 | 4822 051 20103 | 10k 5% 0,1W |
| 3171 | 4822 051 20153 | 15k 5% 0,1W |
| 3172 | 4822 051 20109 | 10Ω 5% 0,1W |
| 3173 | 4822 051 20102 | 1k 5% 0,1W |
| 3174 | 4822 051 20333 | 33k 5% 0,1W |
| 3175 | 4822 051 20333 | 33k 5% 0,1W |
| 3180 | 4822 051 20272 | 2k70 5% 0,1W |
| 3201 | 4822 051 20109 | 10Ω 5% 0,1W |
| 3202 | 4822 051 20823 | 82k 5% 0,1W |
| 3207 | 4822 051 20109 | 10Ω 5% 0,1W |
| 3210 | 4822 051 20273 | 27k 5% 0,1W |
| 3211 | 4822 051 20123 | 12k 5% 0,1W |
| 3212 | 4822 051 20271 | 270Ω 5% 0,1W |
| 3213 | 4822 051 20153 | 15k 5% 0,1W |
| 3214 | 4822 051 20153 | 15k 5% 0,1W |
| 3215 | 4822 051 20562 | 5k60 5% 0,1W |
| 3216 | 4822 051 20122 | 1k20 5% 0,1W |
| 3217 | 4822 051 20153 | 15k 5% 0,1W |
| 3260 | 4822 051 20562 | 5k60 5% 0,1W |
| 3261 | 4822 051 20472 | 4k70 5% 0,1W |
| 3262 | 4822 051 20562 | 5k60 5% 0,1W |
| 3263 | 4822 051 20472 | 4k70 5% 0,1W |
| 3272 | 4822 051 20223 | 22k 5% 0,1W |
| 3273 | 4822 051 20103 | 10k 5% 0,1W |
| 3275 | 4822 051 20103 | 10k 5% 0,1W |
| 3276 | 4822 051 20103 | 10k 5% 0,1W |
| 3280 | 4822 051 20102 | 1k 5% 0,1W |
| 3281 | 4822 051 20102 | 1k 5% 0,1W |
| 3282 | 4822 051 20103 | 10k 5% 0,1W |
| 3400 | 4822 051 20123 | 12k 5% 0,1W |
| 3401 | 4822 051 20123 | 12k 5% 0,1W |
| 3402 | 4822 051 20123 | 12k 5% 0,1W |
| 3403 | 4822 051 20683 | 68k 5% 0,1W |
| 3404 | 4822 051 20562 | 5k60 5% 0,1W |
| 3405 | 4822 116 80659 | 1k5 |
| 3406 | 4822 051 20822 | 8k20 5% 0,1W |
| 3407 | 4822 051 20104 | 100k 5% 0,1W |
| 3408 | 4822 051 20103 | 10k 5% 0,1W |
| 3409 | 4822 051 20224 | 220k 5% 0,1W |
| 3410 | 4822 051 20123 | 12k 5% 0,1W |
| 3411 | 4822 051 20123 | 12k 5% 0,1W |
| 3412 | 4822 051 20123 | 12k 5% 0,1W |
| 3413 | 4822 051 20683 | 68k 5% 0,1W |
| 3414 | 4822 051 20562 | 5k60 5% 0,1W |
| 3415 | 4822 051 20109 | 10Ω 5% 0,1W |
| 3416 | 4822 051 20222 | 2k20 5% 0,1W |
| 3417 | 4822 051 20222 | 2k20 5% 0,1W |
| 3450 | 4822 051 20104 | 100k 5% 0,1W |
| 3451 | 4822 051 20683 | 68k 5% 0,1W |
| 3452 | 4822 051 20223 | 22k 5% 0,1W |
| 3453 | 4822 051 20334 | 330k 5% 0,1W |
| 3454 | 4822 051 20153 | 15k 5% 0,1W |
| 3455 | 4822 051 20103 | 10k 5% 0,1W |

| | | | | | |
|---|---|---|---|---|---|
| 3456 | 4822 051 20103 | 10k 5% 0,1W | 3564 | 4822 051 20682 | 6k80 5% 0,1W |
| 3457 | 4822 051 20103 | 10k 5% 0,1W | 3565 | 4822 051 20392 | 3k90 5% 0,1W |
| 3458 | 4822 051 20153 | 15k 5% 0,1W | 3566 | 4822 051 20473 | 47k 5% 0,1W |
| 3459 | 4822 051 20101 | 100Ω 5% 0,1W | 3582 | 4822 051 20103 | 10k 5% 0,1W |
| 3460 | 4822 051 20471 | 470Ω 5% 0,1W | 3584 | 4822 116 40218 | POSISTOR |
| 3461 | 4822 051 20153 | 15k 5% 0,1W | 3585 | 4822 051 20104 | 100k 5% 0,1W |
| 3462 | 4822 051 20153 | 15k 5% 0,1W | 3586 | 4822 051 20392 | 3k90 5% 0,1W |
| 3463 | 4822 051 20471 | 470Ω 5% 0,1W | 3587 | 4822 051 20103 | 10k 5% 0,1W |
| 3464 | 4822 051 20102 | 1k 5% 0,1W | 3588 | 4822 051 20103 | 10k 5% 0,1W |
| 3465 | 4822 051 20333 | 33k 5% 0,1W | 3600 | 4822 051 20333 | 33k 5% 0,1W |
| 3471 | 4822 051 20109 | 10Ω 5% 0,1W | 3601 | 4822 051 20333 | 33k 5% 0,1W |
| 3473 | 4822 051 20103 | 10k 5% 0,1W | 3602 | 4822 051 20109 | 10Ω 5% 0,1W |
| 3474 | 4822 051 20103 | 10k 5% 0,1W | 3605 | 4822 051 20822 | 8k20 5% 0,1W |
| 3477 | 4822 051 20109 | 10Ω 5% 0,1W | 3615 | 4822 051 20822 | 8k20 5% 0,1W |
| 3478 | 4822 050 21001 | 100Ω 1% 0,6W | 3752 | 4822 051 20103 | 10k 5% 0,1W |
| 3479 | 4822 050 21001 | 100Ω 1% 0,6W | 3753 | 4822 051 20104 | 100k 5% 0,1W |
| 3501 | 4822 051 20153 | 15k 5% 0,1W | 3754 | 4822 051 20104 | 100k 5% 0,1W |
| 3502 | 4822 051 20153 | 15k 5% 0,1W | 3755 | 4822 051 20103 | 10k 5% 0,1W |
| 3503 | 4822 051 20153 | 15k 5% 0,1W | 3758 | 4822 116 52197 | 56Ω 1% 0,4W |
| 3505 | 4822 051 20104 | 100k 5% 0,1W | 3760 | 4822 050 22202 | 2k20 1% 0,6W |
| 3506 | 4822 051 20153 | 15k 5% 0,1W | 3761 | 4822 051 20153 | 15k 5% 0,1W |
| 3507 | 4822 051 20153 | 15k 5% 0,1W | 3762 | 4822 050 22202 | 2k20 1% 0,6W |
| 3509 | 4822 051 20153 | 15k 5% 0,1W | 3763 | 4822 051 20153 | 15k 5% 0,1W |
| 3510 | 4822 051 20104 | 100k 5% 0,1W | 3764 | 4822 051 20472 | 4k70 5% 0,1W |
| 3511 | 4822 051 20109 | 10Ω 5% 0,1W | 3765 | 4822 051 20223 | 22k 5% 0,1W |
| 3512 | 4822 051 20102 | 1k 5% 0,1W | 3766 | 4822 051 20223 | 22k 5% 0,1W |
| 3513 | 4822 051 20333 | 33k 5% 0,1W | 3770 | 4822 051 20103 | 10k 5% 0,1W |
| 3514 | 4822 051 20223 | 22k 5% 0,1W | 3771 | 4822 051 20473 | 47k 5% 0,1W |
| 3515 | 4822 051 20223 | 22k 5% 0,1W | 3772 | 4822 051 20153 | 15k 5% 0,1W |
| 3516 | 4822 051 20223 | 22k 5% 0,1W | 3773 | 4822 051 20222 | 2k20 5% 0,1W |
| 3517 | 4822 051 20223 | 22k 5% 0,1W | 3774 | 4822 051 20223 | 22k 5% 0,1W |
| 3518 | 4822 051 20153 | 15k 5% 0,1W | 3799 | 4822 116 40216 | 4Ω7 |
| 3519 | 4822 051 20153 | 15k 5% 0,1W | 3800 | 4822 051 20103 | 10k 5% 0,1W |
| 3520 | 4822 051 20153 | 15k 5% 0,1W | 3801 | 4822 051 20223 | 22k 5% 0,1W |
| 3521 | 4822 051 20153 | 15k 5% 0,1W | 3802 | 4822 051 20102 | 1k 5% 0,1W |
| 3525 | 4822 051 20471 | 470Ω 5% 0,1W | 3803 | 4822 051 20102 | 1k 5% 0,1W |
| 3526 | 4822 051 20102 | 1k 5% 0,1W | 3804 | 4822 051 20333 | 33k 5% 0,1W |
| 3527 | 4822 051 20153 | 15k 5% 0,1W | 3805 | 4822 051 20103 | 10k 5% 0,1W |
| 3528 | 4822 051 20153 | 15k 5% 0,1W | 3806 | 4822 051 20104 | 100k 5% 0,1W |
| 3530 | 4822 051 20153 | 15k 5% 0,1W | 3807 | 4822 051 20563 | 56k 5% 0,1W |
| 3531 | 4822 051 20104 | 100k 5% 0,1W | 3808 | 4822 051 20334 | 330k 5% 0,1W |
| 3532 | 4822 051 20103 | 10k 5% 0,1W | 3809 | 4822 051 20333 | 33k 5% 0,1W |
| 3533 | 4822 051 20222 | 2k20 5% 0,1W | 3810 | 4822 051 20103 | 10k 5% 0,1W |
| 3540 | 4822 051 20103 | 10k 5% 0,1W | 3811 | 4822 051 20103 | 10k 5% 0,1W |
| 3541 | 4822 051 20153 | 15k 5% 0,1W | 3812 | 4822 051 20103 | 10k 5% 0,1W |
| 3542 | 4822 051 20103 | 10k 5% 0,1W | 3813 | 4822 051 20272 | 2k70 5% 0,1W |
| 3543 | 4822 051 20153 | 15k 5% 0,1W | 3814 | 4822 051 20223 | 22k 5% 0,1W |
| 3544 | 4822 051 20153 | 15k 5% 0,1W | 3815 | 4822 051 20104 | 100k 5% 0,1W |
| 3545 | 4822 051 20153 | 15k 5% 0,1W | 3816 | 4822 051 20471 | 470Ω 5% 0,1W |
| 3550 | 4822 051 20103 | 10k 5% 0,1W | 3817 | 4822 051 20473 | 47k 5% 0,1W |
| 3551 | 4822 051 20103 | 10k 5% 0,1W | 3818 | 4822 051 20103 | 10k 5% 0,1W |
| 3552 | 4822 051 20103 | 10k 5% 0,1W | 3819 | 4822 051 20104 | 100k 5% 0,1W |
| 3553 | 4822 051 20103 | 10k 5% 0,1W | 3820 | 4822 050 21001 | 100Ω 1% 0,6W |
| 3556 | 4822 051 20478 | 4Ω70 5% 0,1W | 3823 | 4822 051 20103 | 10k 5% 0,1W |
| 3557 | 4822 051 20478 | 4Ω70 5% 0,1W | 3824 | 4822 050 11002 | 1k 1% 0,4W |
| 3558 | 4822 051 20478 | 4Ω70 5% 0,1W | 3825 | 4822 050 11002 | 1k 1% 0,4W |
| 3559 | 4822 051 20478 | 4Ω70 5% 0,1W | 3826 | 4822 050 11002 | 1k 1% 0,4W |
| 3560 | 4822 051 20478 | 4Ω70 5% 0,1W | | | |
| 3561 | 4822 051 20478 | 4Ω70 5% 0,1W | | | |
| 3562 | 4822 051 20478 | 4Ω70 5% 0,1W | 5050 | 4822 157 63309 | LAL02VK100K |
| 3563 | 4822 051 20478 | 4Ω70 5% 0,1W | 5051 | 4822 157 63309 | LAL02VK100K |

| | | |
|---|---|---|
| 5052 | 4822 157 60122 | 4,7µH 10% |
| 5053 | 4822 152 20677 | 10µH 10% |
| 5054 | 4822 157 53338 | 1000µH 10% |
| 5055 | 4822 156 31021 | 7PS 1,22µH 6% |
| 5056 | 4822 152 20678 | 33µH10% |
| 5057 | 4822 152 20683 | 7PS 28µH 6% |
| 5058 | 4822 157 52983 | 2N2 |
| 5059 | 4822 157 52983 | 2N2 |
| 5070 | 4822 242 72076 | 10T77BB(10,7MHZ) |
| 5071 | 4822 242 72076 | 10T77BB(10,7MHZ) |
| 5072 | 4822 242 71883 | SFE10,7MS318-D |
| 5073 | 4822 242 71883 | SFE10,7MS318-D |
| 5100 | 4822 242 80258 | SFE10.7MS2-A-TF21 |
| 5150 | 4822 156 11081 | 1,47µH 6% |
| 5160 | 4822 157 51503 | 560µH 10% |
| 5170 | 4822 242 71874 | 4,000 000 MC |
| 5450 | 4822 157 53338 | 1000µH 10% |
| 5460 | 4822 157 53338 | 1000µH 10% |
| 5461 | 4822 242 80259 | LN-G8-311(TPR11) |
| 5500 | 4822 157 53338 | 1000µH 10% |
| 5501 | 4822 242 80259 | LN-G8-311(TPR11) |
| 5570 | 4822 157 63311 | CHOKE |

| | | |
|---|---|---|
| 6051 | 4822 130 32227 | BB112 |
| 6452 | 5322 130 30691 | BAW56 |
| 6453 | 5322 130 31928 | BAS16 |
| 6454 | 4822 130 34382 | BZX79-C8V2 |
| 6530 | 5322 130 30691 | BAW56 |
| 6570 | 4822 130 82465 | 1.5KE27P |
| 6580 | 5322 130 31928 | BAS16 |
| 6755 | 4822 130 34174 | BZX79-C4V7 |
| 6760 | 5322 130 30684 | 1N4002 |
| 6761 | 5322 130 30684 | 1N4002 |
| 6770 | 4822 130 34382 | BZX79-C8V2 |
| 6771 | 4822 130 34499 | BZX79-C20 |
| 6800 | 5322 130 31504 | BZX79-C3V3 |

| | | |
|---|---|---|
| 7050 | 4822 209 72247 | TEA6200/V1 |
| 7150 | 4822 209 73507 | TEA6100/N3 |
| 7170 | 4822 209 61954 | TSA6057/C5 |
| 7200 | 4822 130 60511 | BC847B |
| 7201 | 5322 130 41983 | BC858B |
| 7203 | 5322 130 41983 | BC858B |
| 7400 | 4822 209 10263 | HEF4052BP |
| 7401 | 4822 130 60511 | BC847B |
| 7450 | 4822 209 83159 | LA2000 |
| 7451 | 4822 209 11756 | PCF80C51BH-3P/J073 |
| 7460 | 4822 209 30315 | MICRO OTP INTERFACE |
| 7461 | 4822 209 63244 | X24C04PI |
| 7500 | 4822 209 63244 | X24C04PI |
| 7501 | 4822 209 30314 | MICROPROC OTP MAIN |
| 7502 | 4822 130 60511 | BC847B |
| 7504 | 4822 209 73423 | TLC549IP |
| 7505 | 5322 209 11446 | HEF4051BT PHIN |
| 7550 | 4822 209 30018 | TDA1554Q/N1 |
| 7551 | 4822 209 30018 | TDA1554Q/N1 |
| 7552 | 5322 130 41982 | BC848B |
| 7582 | 5322 130 41983 | BC858B |
| 7600 | 4822 209 72892 | TEA6310T/V5 |
| 7752 | 4822 209 72252 | L4904 |
| 7753 | 4822 209 72253 | L4918H |
| 7754 | 4822 130 60511 | BC847B |
| 7755 | 4822 130 60511 | BC847B |
| 7760 | 5322 130 44349 | BC635 |
| 7761 | 4822 130 44283 | BC636 |
| 7762 | 5322 130 60508 | BC857B |
| 7763 | 4822 130 60511 | BC847B |
| 7764 | 4822 130 60511 | BC847B |
| 7770 | 4822 130 60511 | BC847B |
| 7771 | 4822 130 60511 | BC847B |
| 7800 | 4822 130 60511 | BC847B |
| 7801 | 5322 130 41983 | BC858B |
| 7802 | 5322 130 41983 | BC858B |
| 7803 | 4822 130 60511 | BC847B |
| 7804 | 5322 130 41983 | BC858B |
| 7805 | 5322 130 41983 | BC858B |
| 7806 | 4822 130 60511 | BC847B |
| 7807 | 4822 130 60511 | BC847B |
| 7808 | 5322 130 44864 | BC517 |
| 7811 | 4822 130 62651 | ON4414 |